



TV / DVD

THOMSON

PARTS LIST
 LISTE PIECES DETACHEES
 ERSATZTEILLISTE
 LISTA PARTI DI RICAMBIO
 LISTA DE PIEZAS DE REPUESTO

THOMSON
 21HT195
 Chassis ITC008

MODULES

MAIN	IC008F56T01SDJ0	21459580
CRT	CRTI00840	21285050
DVD	DVD MODULE DMM05A-2 EUDVD	56035210
FAV	FAV USB TV/TVD008	21446770
IFAC	POWER INTERFACE I00802	21487910
KDB	KDBI00805	21455780
SCI	SCI00814	21409460
FZP60,61	MP315	△ 10575090
FZP66,93	MP50	△ 10457120
FZP200,201	TE5-T NO 396 3.15A 125V	△ 21210090
FZP202	TE5-T NO 19396 2.5A 125V	△ 21210080
FZP205,206,207	TE5-T NO 396 1.0A 125V	△ 21210050
FZP20,FZX01	TE5-T NO 396 500MA 125V	△ 21210040
GK001	TFMSS330B	20627780
IB001	TDA6107JF/N3	10804130
IF001	STV8172A	56012920
IP001	TLP621 GR(D4-LF2 T)	20827900
IP030	STV8130A+	10748720
IP031	MC7805/ACT	46007400
IP050,201,202,	TL431ACLP	10724920
203		
IR001	CAT24WC08P	21133090
IS100	MSP3415G-PO-B8	10714120
IS200	TDA7263	10281150
IV001	TDA9554PS/N3/3 SOFT ED1	35989320
	VERS. S9.00	
IX401	LA79500E FLAT	21160230
IX408	FSAV330M FLAT	21391640

TD900	MMBT390GLT1 SMD	20628200
TI030,045,	DTC144EK SMD	16007030
TR003		
TI050,TL050	BC856B SMD	16006310
TI060,070,	BC846B SMD	16006260
TL031,062,		
TX001,004		
TL032,TR005	BC337-40	45001466
TL035	S2055N	20578760
TL060	BCR191 SMD	16006910
TL061	RN1409 SMD	20688820
TP020	STP6NB90FP	25460310
TP022,052,206	BC548B	16000930
TP023,205,	KTC8550D	21039270
TX009		
TP025	BC558B	16001110
TP171,175,176,	BC848B SMD	16006290
177,193,TS201,		
204, TX006,007,		
010		
TP192	BC858B SMD	16006330
TP201,202,203,	KTC2026Y	21141190
204		
TR001	BCR185 SMD	16006900
TR002	BCR141 SMD	16006890
TS202,203	RN1402 (TE85L/R) SMD	10966200
TX008	RN2402 SMD	20205800
TZ01	S1423	△ 50888780

DB004	1N4004	44009009
DB030,031,050,	BAV21	44044407
051,070,071,		
DP037,097		
DD900,DX007,	BZT55C5V1 SMD	15196090
009,011,017		
DF001	BZW04-48	10351880
DF002,003,	1N4148	44009209
DH004,DK005,		
006,DL004,030,		
062,DP071,205,		
DV071,DZ05,		
JP212		
DF010,DL011,	1N4001	16008160
013,035,DP036		
DF101,102,	LL4148 SMD	16012450
DJ121,DL072,		
DS204,DV070,		
DX005,019,024,		
DZ01		
DH001	BZX55B33	80442730
DI030,040	BA782S SMD	20542050
DJ120,DK003,	BZX55B5V6/ZPD5V6 2%	70438200
004,DR001		
DL010,025,040,	RGP10G	10459090
060,DP025,026,		
093		
DL012	EGP10D	20953640
DP002,003,004,	BYW27-1000	10455390
005		
DP023,030	BZX55C8V2	11073660
DP027,040	BZX55C27	60447870
DP033	BZX55B15/ZPD15 2%	80444020
DP057,207	BZX55C9V1	90578100
DP061	SB560	20956430
DP063	BYW98-200 3.0A	15103710
DP080	STH5L06	21285880
DP095,DZ03	ZPD10 2%	80444160
DP200,201,202	IN5822	44058204
DP203	RGP15G	10272800
DP206	BZX55C3V9	80444130
DU001,002,003,	MMSZ6V8T1 SMD	15580490
004		
DV002,003,004	MMSZ10T1 SMD	15580530
DX001	BZT52C13 SMD	15583750
DX002	BZT52C3V9 SMD	15583620
DX018	BZT52C5V6 SMD	15583660
DX020,021	MMSZ12T1 SMD	15580550
DK003	TLXR4400 LED	16011680

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VERSION 1 10 / 2005
 VERSION 2 00 / 0000 36013360

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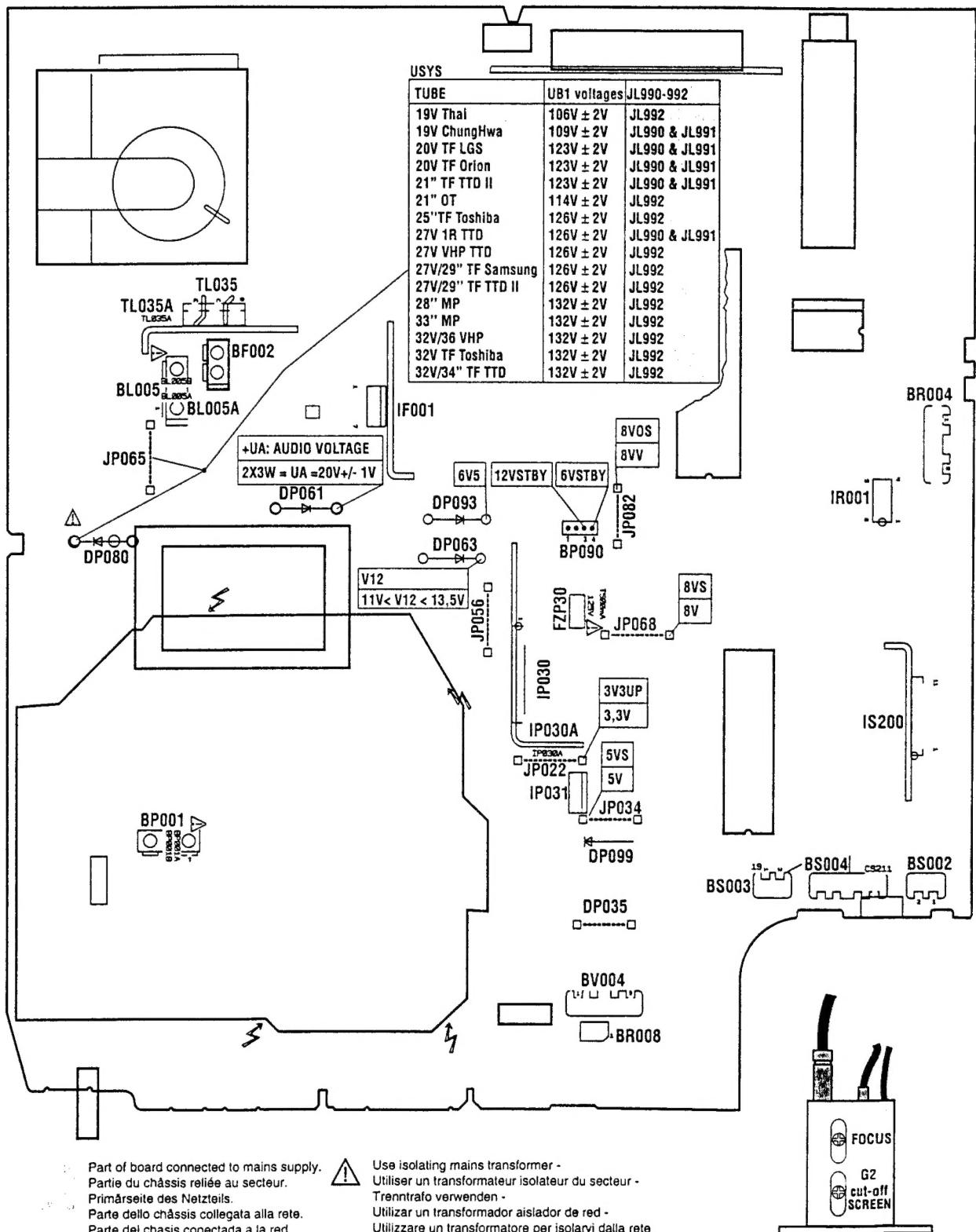
ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

MAIN SYSTEM VOLTAGE +UB1		<p>TV to AV : Black test pattern</p> <p>AV </p>		<table border="1"> <thead> <tr> <th>TUBE</th><th>UB1 voltages</th><th>JL990-992</th></tr> </thead> <tbody> <tr><td>19V Thai</td><td>106V ± 2V</td><td>JL992</td></tr> <tr><td>19V ChungHwa</td><td>109V ± 2V</td><td>JL990 & JL991</td></tr> <tr><td>20V TF LG5</td><td>123V ± 2V</td><td>JL990 & JL991</td></tr> <tr><td>20V TF Orion</td><td>123V ± 2V</td><td>JL990 & JL991</td></tr> <tr><td>21" TF TTD II</td><td>123V ± 2V</td><td>JL990 & JL991</td></tr> <tr><td>21" OT</td><td>114V ± 2V</td><td>JL992</td></tr> <tr><td>25"TF Toshiba</td><td>126V ± 2V</td><td>JL992</td></tr> <tr><td>27V 1R TTD</td><td>126V ± 2V</td><td>JL990 & JL991</td></tr> <tr><td>27V VHP TTD</td><td>126V ± 2V</td><td>JL992</td></tr> <tr><td>27V/29" TF Samsung</td><td>126V ± 2V</td><td>JL992</td></tr> <tr><td>27V/29" TF TTD II</td><td>126V ± 2V</td><td>JL992</td></tr> <tr><td>28" MP</td><td>132V ± 2V</td><td>JL992</td></tr> <tr><td>33" MP</td><td>132V ± 2V</td><td>JL992</td></tr> <tr><td>32V/36 VHP</td><td>132V ± 2V</td><td>JL992</td></tr> <tr><td>32V TF Toshiba</td><td>132V ± 2V</td><td>JL992</td></tr> <tr><td>32V/34" TF TTD</td><td>132V ± 2V</td><td>JL992</td></tr> </tbody> </table>	TUBE	UB1 voltages	JL990-992	19V Thai	106V ± 2V	JL992	19V ChungHwa	109V ± 2V	JL990 & JL991	20V TF LG5	123V ± 2V	JL990 & JL991	20V TF Orion	123V ± 2V	JL990 & JL991	21" TF TTD II	123V ± 2V	JL990 & JL991	21" OT	114V ± 2V	JL992	25"TF Toshiba	126V ± 2V	JL992	27V 1R TTD	126V ± 2V	JL990 & JL991	27V VHP TTD	126V ± 2V	JL992	27V/29" TF Samsung	126V ± 2V	JL992	27V/29" TF TTD II	126V ± 2V	JL992	28" MP	132V ± 2V	JL992	33" MP	132V ± 2V	JL992	32V/36 VHP	132V ± 2V	JL992	32V TF Toshiba	132V ± 2V	JL992	32V/34" TF TTD	132V ± 2V	JL992
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U G2 / CUTOFF METHOD 1 Measurement	LL05 SCREEN Focus Block	<p>TV to AV : Black test pattern</p> <p>AV </p>	<p>highest output R, G, B pins CRT socket</p>	<p>100:1 probe 2ms / div Y= 20V/div DC</p> <table border="1"> <thead> <tr> <th>Tube</th> <th>V Cut-off</th> </tr> </thead> <tbody> <tr><td>21" OT 90°</td><td>125V +/- 3V</td></tr> <tr><td>21" XF-TTD</td><td>125V +/- 3V</td></tr> <tr><td>21" XF Toshiba</td><td>125V +/- 3V</td></tr> <tr><td>28" MP</td><td>125V +/- 3V</td></tr> <tr><td>29" TF Samsung</td><td>125V +/- 3V</td></tr> <tr><td>29" XF TTD II</td><td>125V +/- 3V</td></tr> <tr><td>33" MP</td><td>125V +/- 3V</td></tr> <tr><td>34" XF TTD</td><td>125V +/- 3V</td></tr> </tbody> </table>	Tube	V Cut-off	21" OT 90°	125V +/- 3V	21" XF-TTD	125V +/- 3V	21" XF Toshiba	125V +/- 3V	28" MP	125V +/- 3V	29" TF Samsung	125V +/- 3V	29" XF TTD II	125V +/- 3V	33" MP	125V +/- 3V	34" XF TTD	125V +/- 3V																																	
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U G2 / CUTOFF METHOD 2 SERVICE MODE (According to software version).	SERVICE MODE	<p>Alternative method : see Service Mode p. 9 Autre méthode : voir réglage dans le service mode p. 9 Siehe Service Mode S. 9 Metodo alternativo :vedi Service Mode p.9 Método alternativo : ver Modo Servicio págs. 9</p>																																																					

EAST-WEST MODULE - MODULE EST-OUEST - OST-WEST-MODUL - MODULO EST-OVEST - MODULO ESTE-OESTE

GEOMETRY	TV : AV1 Test pattern Standard TV - Settings :			Correct picture
	<p>= 50%</p>			
EWM	<p>PL140</p> <p>PL141</p> <p>PL143</p> <p>SERVICE MODE</p>	<p>GB - Please refer to geometry Mode alignment (110° tube), page 10, to adjust the East West Module (EWM)</p> <p>F - Se référer à la méthode d'alignement des géometries (tubes 110°), page 10 pour effectuer les réglages du Module Est-Ouest (EWM).</p> <p>D - Abgleich des Ost-West-Modules: Siehe Geometrie-Abgleich (110°), Seite 10.</p> <p>I - Per le regolazioni del Modulo Est-Ovest fare riferimento al modo allineamento geometria (tubi 110°), pagina 10.</p> <p>E - Para los ajustes del módulo Este-Oeste (EWM) ver la página 10, modo ajuste geometría (tubo 110°)</p>		

LOCATION OF CONTROLS - EMPLACEMENT DES REGLAGES - LAGEPLAN
EINSTELLER - POSIZIONE REGULATORI DI SERVIZIO - SITUACIÓN DE LOS AJUSTES



A51QDJ420X03 CATHODE RAY TUBE A51QDJ420X03 TUBE CATHODIQUE A51QDJ420X03 FARBBILDROEHRE A51QDJ420X03 TUBO COTÁDICO A51QDJ420X03 T.R.C	△ 56038460	ON/OFF SWITCH SUPPORT SUPPORT CONTACTEUR MARCHE/ARRET HALTER EIN-AUS SCHALTER SUPPORTO CONTATTORE ACCESO/SPENTO SOPORTO CONTACTOR MARCHA/PARADA	25793080	
DEGAUSSING COIL 445MM BOBINE DE DEMAGNETISATION 445MM ENTMAGNETISIERUNGSSPULE 445MM BOBINA DI SMAGNETIZZAZIONE 445MM BOBINA DE DESIMANTACION 445MM	△ 10738830			
POWER SUPPLY LEAD CORDON D'ALIMENTATION NETZKABEL CAVO DI ALIMENTAZIONE CABLE DE ALIMENTACION	△ 10260880			
8R0 OHM 10W LOUSPEAKER 42X105MM 8R0 OHM 10W HAUT PARLEUR 42X105MM 8R0 OHM 10W LAUTSPRECHER 42X105MM 8R0 OHM 10W ALTOPARLANTE 42X105MM 8R0 OHM 10W ALTAVOZ 42X105MM	25737950	ITC008 POWER SUPPLY REPAIR KIT ITC008 KIT MAINTENANCE ALIMENTATION ITC008 REPARATURSET NETZTEIL ITC008 KIT PER RIPARARE ALIMENTAZIONE ITC008 KIT DE REPARACION ALIMENTACION	35711620	
RC311TA1G REMOTE CONTROL RC311TA1G TELECOMMANDE RC311TA1G FERNBEDIENUNG RC311TA1G TELECOMANDO RC311TA1G TELEMANDO	21282880			
CORD STOPPER ATTACHE CORDON SECTEUR ZUGENTLASTUNG BRIDA CORDONE DI ALIMENTAZIONE SUJECION CABLE DE ALIMENTACION	25307670	15HT195/21HT195 UM THOMSON 15HT195/21HT195 NU THOMSON 15HT195/21HT195 BA THOMSON 15HT195/21HT195 IU THOMSON 15HT195/21HT195 IU THOMSON	60179990	
SPACER FRONT PANEL ENTRETOISE FACADE DISTANZSCHEIBE FRONTPLATTE DISTANZIATORE PANNELLO FRONTALE ESPACIADOR PANEL FRONTAL	25587590	CDROM ITC008 CDROM ITC008 CDROM ITC008 CDROM ITC008 CDROM ITC008	35765170	
COVER TRAY CD CH11TH CACHE TIROIR CD ABDECKUNG SCHUBLADE CD COPERCHIO CASSETTO CD CUBIERTA CORREDERA CD	25828130	ITC008 SERVICE MANUAL ITC008 DOC TECHNIQUE ITC008 TECHNISCHE DOKUMENTATION ITC008 DOCUMENTAZIONE TECNICA ITC008 DOCUMENTACION TECNICA	35696810	
LOUDSPEAKER GRID LEFT/RIGHT BK20TH GRILLE HAUT PARLEUR GAUCHE/DROIT BK20TH LAUTSPRECHERGITTER LINKS/RECHTS BK20TH GRIGLIA ALTOPARLANTE SINISTRA/DESTRA BK20TH REJILLA ALTAVOZ IZQUIERDA/DERECHA BK20TH	25828160	ITC008 SERVICE MANUAL VERSION 2 ITC008 DOC TECHNIQUE VERSION 2 ITC008 TECHNISCHE DOKUMENTATION VERSION2 ITC008 DOCUMENTAZIONE TECNICA VERSION 2 ITC008 DOCUMENTACION VERSION 2	35922830	
REAR PANEL AL01TH DOS AL01TH RUECKWAND AL01TH PANNELLO POSTERIORE AL01TH TAPA POSTERIOR AL01TH	△ 35949340	21HT195 PARTS LIST 21HT195 LISTE DE PIECES DETACHEES 21HT195 ERSATZTEILLISTE 21HT195 LISTA PARTI DI RICAMBIO 21HT195 LISTE DE PIEZAS DE REPUESTO	36013360	
BUTTON STRIP TV CH11TH BARRETTE DE TOUCHES TV CH11TH TASTENLEISTE TV CH11TH PIATTINA TASTI TV CH11TH PLACA DE TECLAS TV CH11TH	25828190			
LED WINDOW GLACE LED LED FENSTER VETRO LED CRISTAL LED	25793110			
INFRARED WINDOW GLACE INFRAROUGE INFRAROT FENSTER VETRO INFRAROSSO CRISTAL INFRAROJO	25793120			
FCB SUPPORT AL01TH SUPPORT FCB AL01TH FCB HALTER AL01TH SUPPORTO FCB AL01TH SOPORTE FCB AL01TH	35949310			

21HT195

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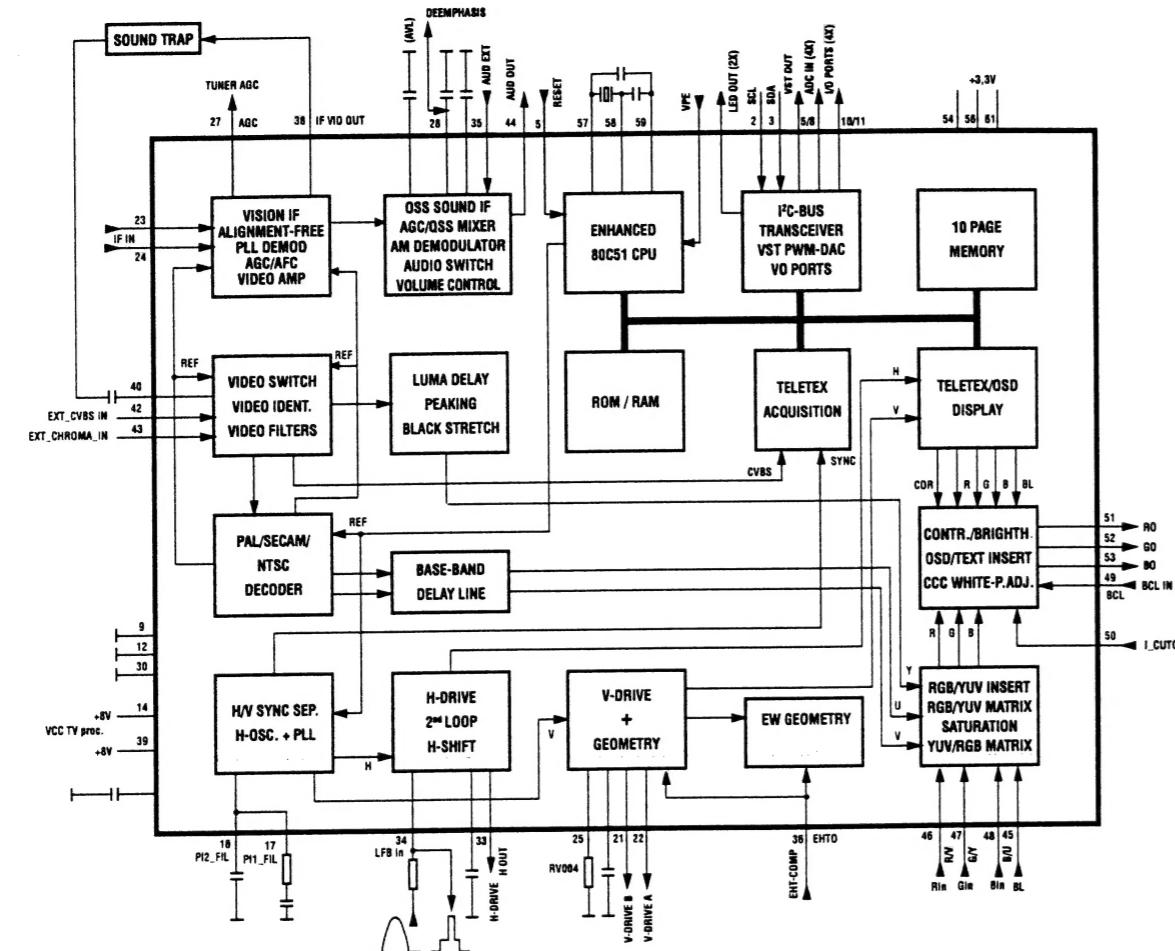
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FI010	OFWK6257K FOS	10545030
FI020	K9659D 33M9HZ FOS	21132460
FI030	40M4HZ	10664720
FI050	5M74HZ	20338170
QS101	18M432HZ	21414780
QV001	12M0HZ	25418130
LH010, LI032,	10UH	15039640
LL040, LS103,		
LV001,004		
LI031	6,8UH 5%	13052120
RB001,004,	1K5 OHM 5% 0,50W	10121880
RL026		
RB013	10R0 OHM 10% 0,50W	15000160
RB031,051,071	560R0 OHM 10% 0,50W	10257590
RF004,006	1K5 OHM 1% 0,25W	80437630
RF007	1R21 OHM 1% 0,70W	13010820
RF008	1R5 OHM 5% 0,25W	△ 13063950
RL010	0R1 OHM 10% 0,40W	△ 15022510
RL012	0R22 OHM 5% 0,50W	△ 10305450
RL040	47R0 OHM 5% 0,35W	△ 20923340
RP001	4R7 OHM 5% 10W	11063840
RP002	18R0 OHM 230V PTC	△ 10509980
RP009	470K0 OHM 5% 1W	△ 21185660
RP015	10M0 OHM 5% 1W	△ 21090250
RP020	0R68 OHM 5% 2,5W	20822410
RP056	130K0 OHM 1% 0,25W	15514320
RP210	47R0 OHM 5% 3W	90572360
RP281	1R0 OHM 1% 0,25W	15015430
RS103	3R9 OHM 5% 0,25W	15009970
RS216,219	4R7 OHM 5% 0,35W	△ 10226310
RV001	15K0 OHM 5% 0,10W	10135050
RZ05	29K4 OHM 1% 0,25W	60442370
RZ07	27K4 OHM 1% 0,25W	80437740
CB001	10NOF 3KV	14036450
CB003,006,	10UF 20% 250V	13039480
CL041		
CB004	47NOF 5% 250V	40433080
CF004	1NOF 10% 50V	10138550
CH008,CV002	100UOF 20% 25V	43269060
CI055,CV003	100P0F 10% 16V	20947390
CL010,012,026,	330P0F 10% 1KV	14030320
040,CP026,068		
CL021	8N8F 3,5% 1KV	△ 43416000
CL022	330P0F 10% 2KV	20833150
CL023	270NOF 5% 250V	△ 21265580
CL060,CP097,	4U7F 20% 100.0V 85C	13070930
CV072		
CP001,002	100NOF 20% 275V	△ 10364920
CP004,005,006	1N5F 10% 1KV	20338740
CP008	150UOF 20% 400V	13050060

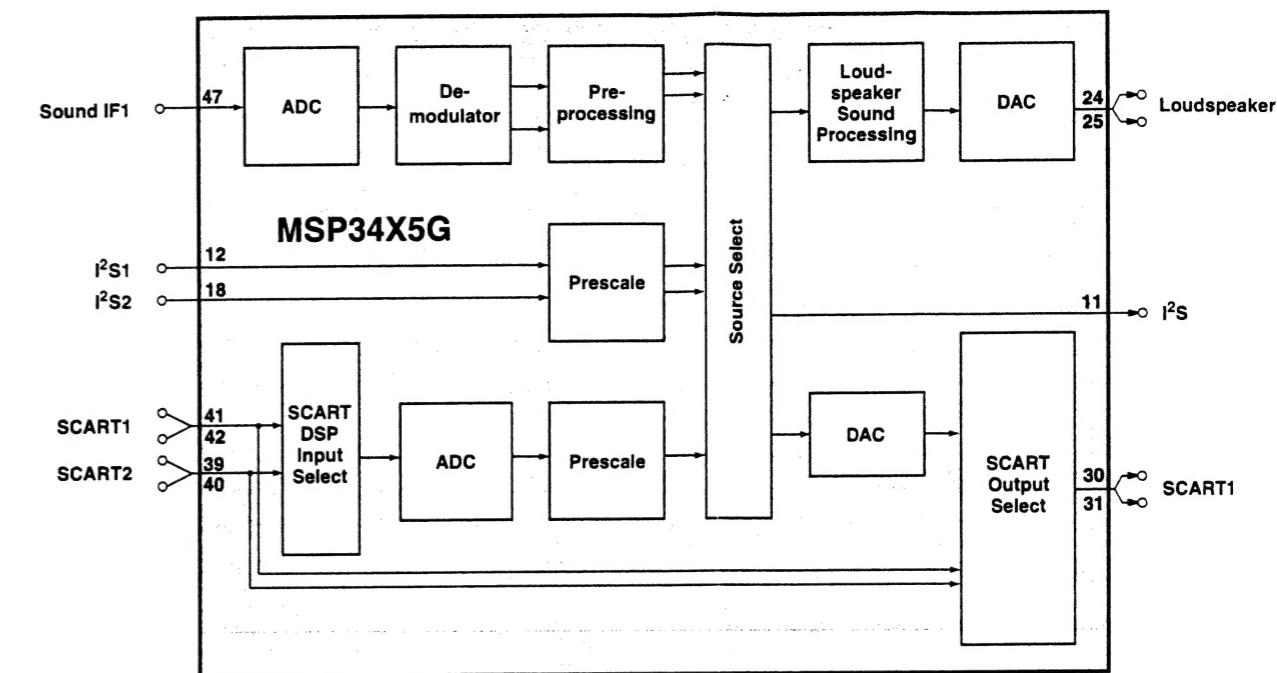
	CP009	2N2F 20% 1K6V	10571760	
	CP015	2N2F 20% 400V	△ 10660820	△ 21219710
	CP050	470P0F 5% 63V	15001790	
	CP063	680P0F 5% 63V	15001830	
	CP080	220UOF 20% 200V	10658570	
	CP088	2N2F 2KV	14036020	
	CV001,004	220NOF 10% 10V	20947540	
	CV005	2N7F 10% 50V	10138630	
	CV006,008	1U0F 10% 6.3V	25491000	
	CV007	4.7NF 10% 50V	10138710	
LL005	FBT JF0501-19544	△ 21323130		
LL026	58UOH	△ 21426470		
LL032	DRIVER	20936440		
LP002	60MH	△ 21315930		
LP003	SMTEU-D160	△ 21261120		
OTHER PARTS				
AUTRES PIECES				
SONSTIGE TEILE				
ALTRE PARTI				
OTRAS PIEZAS				
BB005	CATHODE RAY TUBE SOCKET	△ 1506533A		
	SUPPORT TUBE CATHODIQUE			
	BILDOREHRENFASSUNG			
	SUPPORTO TUBO CATODICO			
	SOPORTE T.R.C			
BJ110	HEADPHONE SOCKET	56029020		
	PRISE CASQUE			
	KOPFHÖRERBUCHSE			
	PRESA JACK			
	TOMA JACK			
BK003	CINCH SOCKET 3 ASSY	21296150		
	ENSEMBLE 3 PRISES CINCH			
	CHINCH 3 BUCHSEN-EINHEIT			
	ASSIEME 3 PRESA CINCH			
	CONJUNTO 3 TOMA CINCH			
BJ012	HEADPHONE SOCKET	21117680		
	PRISE CASQUE			
	KOPFHÖRERBUCHSE			
	PRESA JACK			
	TOMA JACK			
BR001	CABLE FLAT 8 PINS 400MM	△ 2120041A		
	CABLE NAPPE 8 PINS 400MM			
	KABEL FLACH 8 PINS 400MM			
	CAVO FALDA 8 PINS 400MM			
	CABLE 8 PINS 400MM			
BS003	CONNECTOR	11095570		
	CONNECTEUR			
	STECKVERBINDUNG			
	CONNETTORE			
	CONNECTOR			
BS004	CONNECTOR	70438840		
	CONNECTEUR			
	STECKVERBINDUNG			
	CONNETTORE			
	CONNECTOR			
BU002	USB SOCKET	56056520		
	PRISE USB			
	USB-BUCHSE			
	PRESA USB			
	TOMA USB			
BX010	SCART SOCKET (BLACK)	60068900		
	PRISE PERITEL (NOIR)			
	EURO-AV-BUCHSE (SCHWARZ)			
	EUROPRESA NORMALIZZATA (NERA)			
	EUROCONECTOR (NEGRA)			
BX100	CONNECTOR 21 PINS			
	CONNECTEUR 21 VOIES			
	VERBINDERL 21-POLIG			
	CONNETTORE 21 SPINOTTI			
	CONECTOR 21 PUNTOS			
CH200	ON/OFF SWITCH MSB2000	△ 10276500		
	CONTACTEUR MARCHE/ARRÊT			
	MSB2000			
	EIN-AUS SCHALTER MSB2000			
	CONTATTORE ACCESO/			
	SPENTO MSB2000			
	CONTACTOR MARCHA/PARADA			
	MSB2000			
CH201	CABLE WITH CONNECTOR	25419710		
	2 PINS 500MM			
	CABLE AVEC CONNECTEUR			
	2 VOIES 500MM			
	KABEL MIT VERBINDER			
	2 PINS 500MM			
	CAVO CON CONNETTORE			
	2 SPINOTTI 500MM			
	CABLE CON CONECTOR			
	2 PUNTOS 500MM			
FP001	1AGT 250V TIME-LAG FUSE	△ 48064700		
	1AGT 250V FUSIBLE TEMPORISE			
	1AGT 250V SICHERUNG			
	1AGT 250V FUSIBILE TEMPORIZZATO			
	1AGT 250V FUSIBLE TEMPORIZADO			
NH001	CTF5560 UHF/VHF TUNER	21383640		
	CTF5560 TETE UHF/VHF			
	CTF5560 UHF/VHF TUNER			
	CTF5560 TUNER UHF/VHF			
	CTF5560 SINTONIZADOR			
	UHF/VHF			
SK101,102,103,MICROSWITCH		25380930		
104,105,106,				
107,108				
SP001	RELAY 12V	△ 20620640		
	RELAYS 12V			
	RELAIS 12V			
	RELE 12V			
	RELE 12V			
EQUIPMENT/PRESENTATION				
EQUIPEMENT/PRESENTATION				
AUSSTATTUNG/GEHÄUSE				
PARTI VARIE				
EQUIPO/PRESENTACION				
FITTING SET		25820690		
ENSEMBLE DE CALES				
POLSTER KIT				
ASSIEME DISTANZIATORE				
CONJUNTO CALZO				
LOGO THOMSON CHROME				
LOGO THOMSON CHROME				
SCHRIFTZUG THOMSON CHROME				
MARCIO THOMSON CHROME				
LOGOTIPO THOMSON CHROME				
CARTON MIDDLE				
CARTON INTERMEDIAIRE				
KARTON MITTELTEIL				
CARTONE MEZZO				
CARTON MEDIO				
FOLDING BOX		25820710		
EMBALLAGE CARTON				
KARTON				
IMBALLAGGIO CARTONE				
EMBALAJE CARTON				
FRONT PANEL BS04TH		3598832A		
FACADE BS04TH				
FRONTPLATTE BS04TH				
PANNELLO FRONTALE BS04TH				
PANEL FRONTAL BS04TH				

INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES - INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBILDER -
SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS

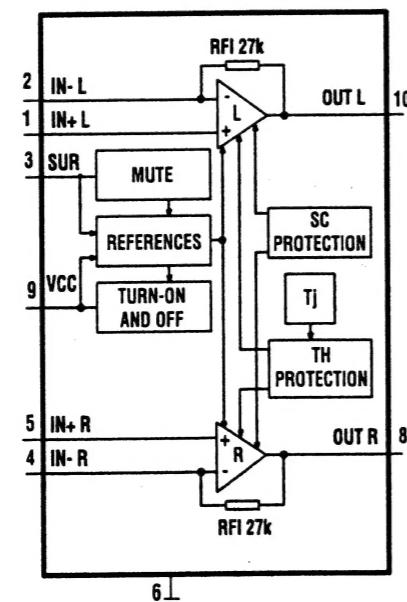
MICROPROCESSOR - TDA9554



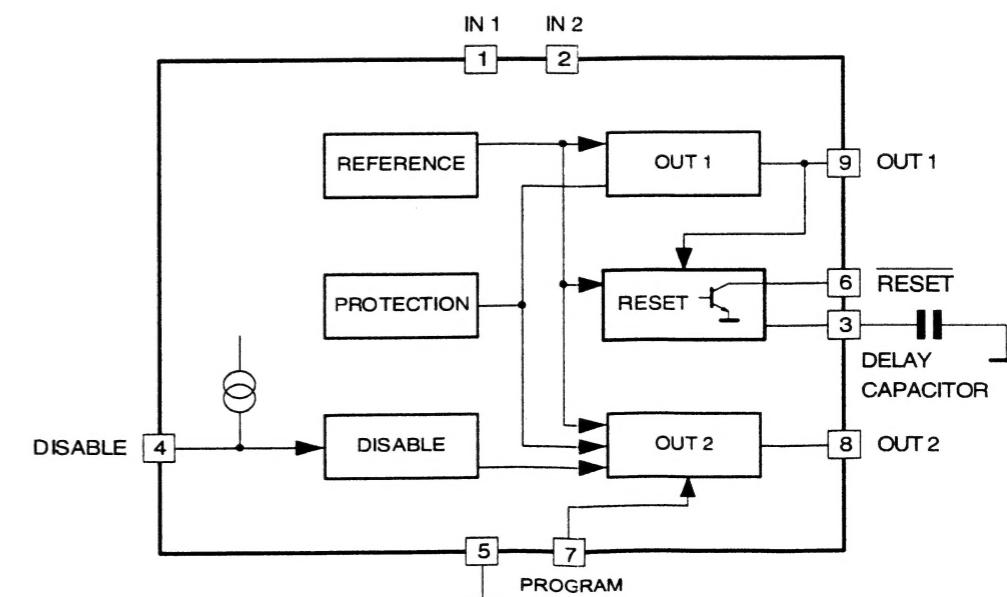
MSP3415G - SOUND PROCESSOR



AUDIO POWER AMPLIFIER - TDA7253 - TDA7263



STV8130 - 3.3V AND ADJUSTABLE VOLTAGE REGULATOR



Television

Chassis

ITC008

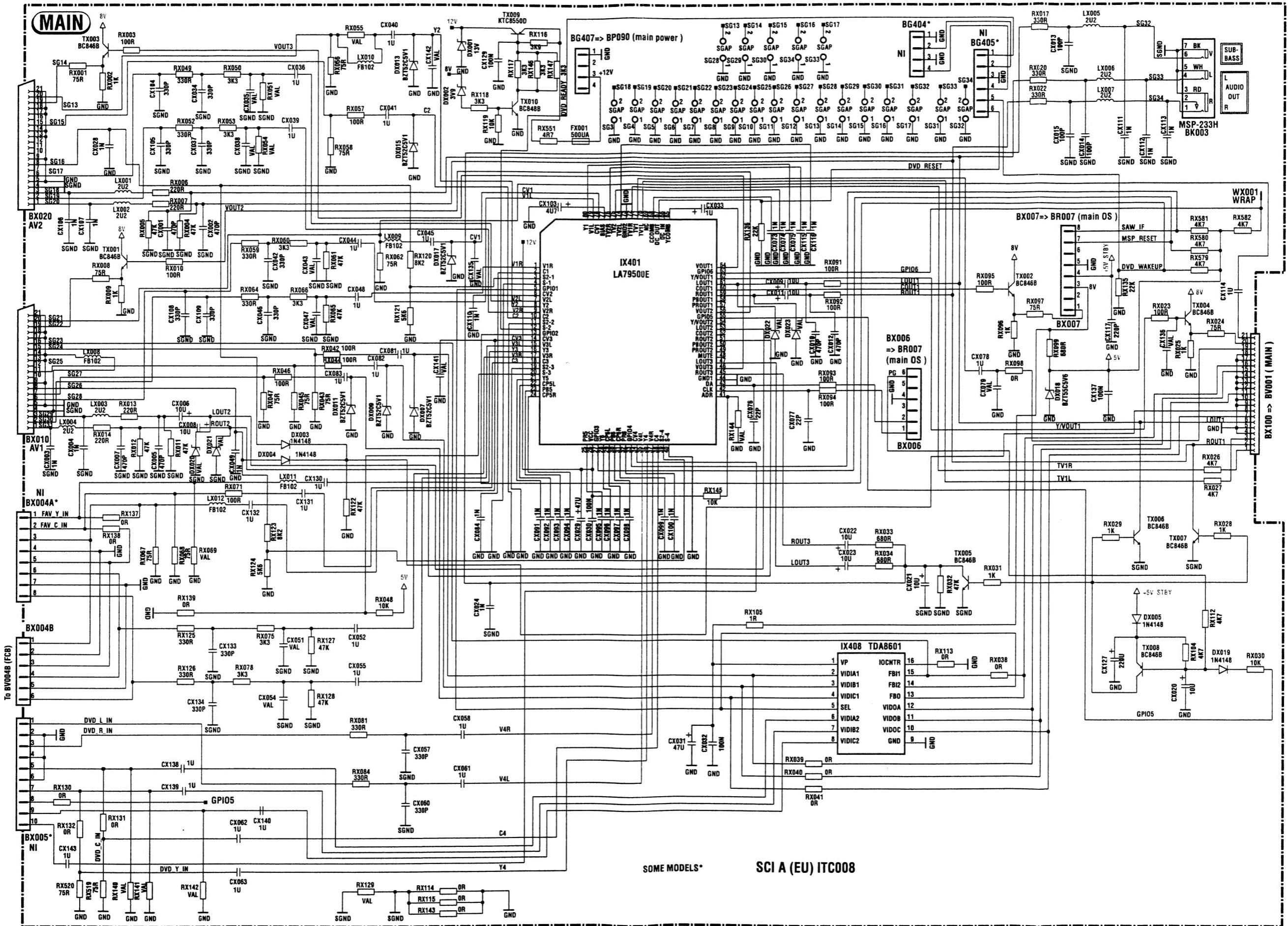
**LIST OF ABBREVIATIONS - LISTE DES ABREVIATIONS - ABKÜRZUNGEN
LISTA DELLE ABBREVIAZIONI - LISTA DE ABREVIACIONES**

● AUDIO MUTE	MUTE AUDIO AMPLIFIER
● BCL	BEAM CURRENT LIMITING INFORMATION
● B	BLUE SIGNAL TO VIDEO AMPLIFIER
● CVBS	COMPOSITE VIDEO BASE BAND SIGNAL
● DEGAUSS	DEGAUSS SIGNAL
● G	GREEN SIGNAL TO VIDEO AMPLIFIER
● H DRIVE	DRIVE SIGNAL FOR HORIZONTAL DEFLECTION
● HEATER	HEATER VOLTAGE
● I CUT	CUT OFF CURRENT
● IR	DATA FROM INFRARED RECEIVER
● LFB	HORIZONTAL FLYBACK REFERENCE
● PO	POWER ON. SIGNAL FROM MICRO. TO POWER SUPPLY. SWITCHES THE POWER SUPPLY FROM STANDBY TO ON.
● R	RED SIGNAL TO VIDEO AMPLIFIER
● SCL	SERIAL CLOCK
● SDA	SERIAL DATA
● UA	POSITIVE AUDIO VOLTAGE
● UB1 / USYS	SYSTEM VOLTAGE
● U_SYS_MOD	SIGNAL TO MODULATE USYS
● UVIDEO	VIDEO VOLTAGE FOR THE CRT BOARD
● V_DRIVE	DRIVE SIGNAL FOR VERTICAL DEFLECTION
● +VSUPPLY	POSITIVE SUPPLY VOLTAGE FOR VERTICAL POWER AMPLIFIER
● -VSUPPLY	NEGATIVE SUPPLY VOLTAGE FOR VERTICAL POWER AMPLIFIER
● V12	SUPPLY VOLTAGE FROM POWER SUPPLY. USED FOR THE DRIVER CIRCUIT START UP
● +3V3UP	POSITIVE SUPPLY FOR GESTION PART IV001
● +33V	TUNER VOLTAGE

Data processing**Symptom description**

The set switch OFF and switch ON again without reason.
Colour flashing on the screen.

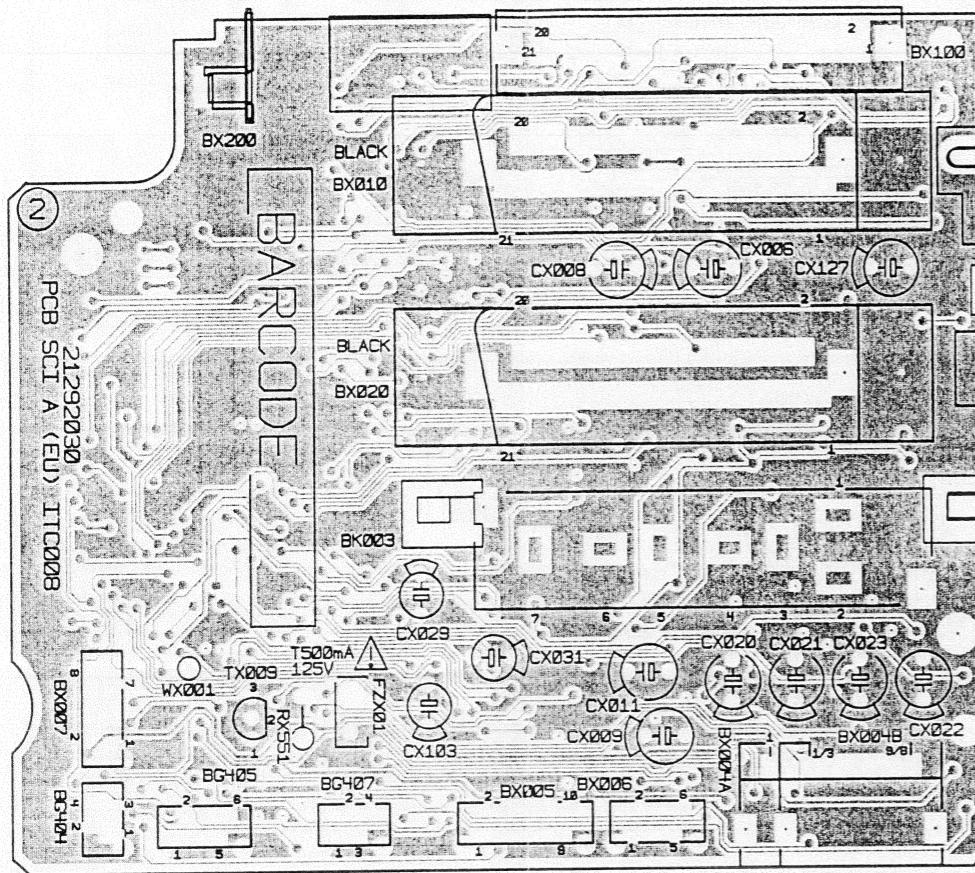
SCART INTERFACE - INTERFACE PERITELEVISION - SCART INTERFACE - PRESA PERITEL- EUROCONECTOR



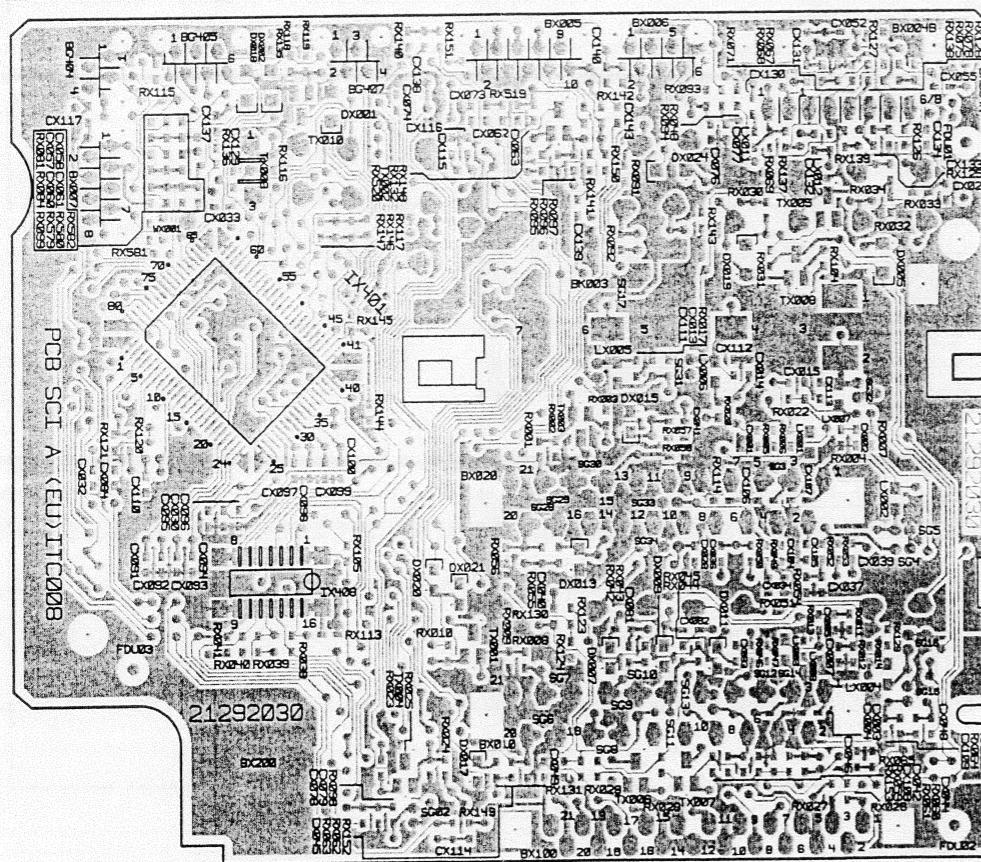
ITC008
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SCART INTERFACE - INTERFACE PERITELEVISION - SCART INTERFACE - PRESA PERITEL- EUROCONECTOR

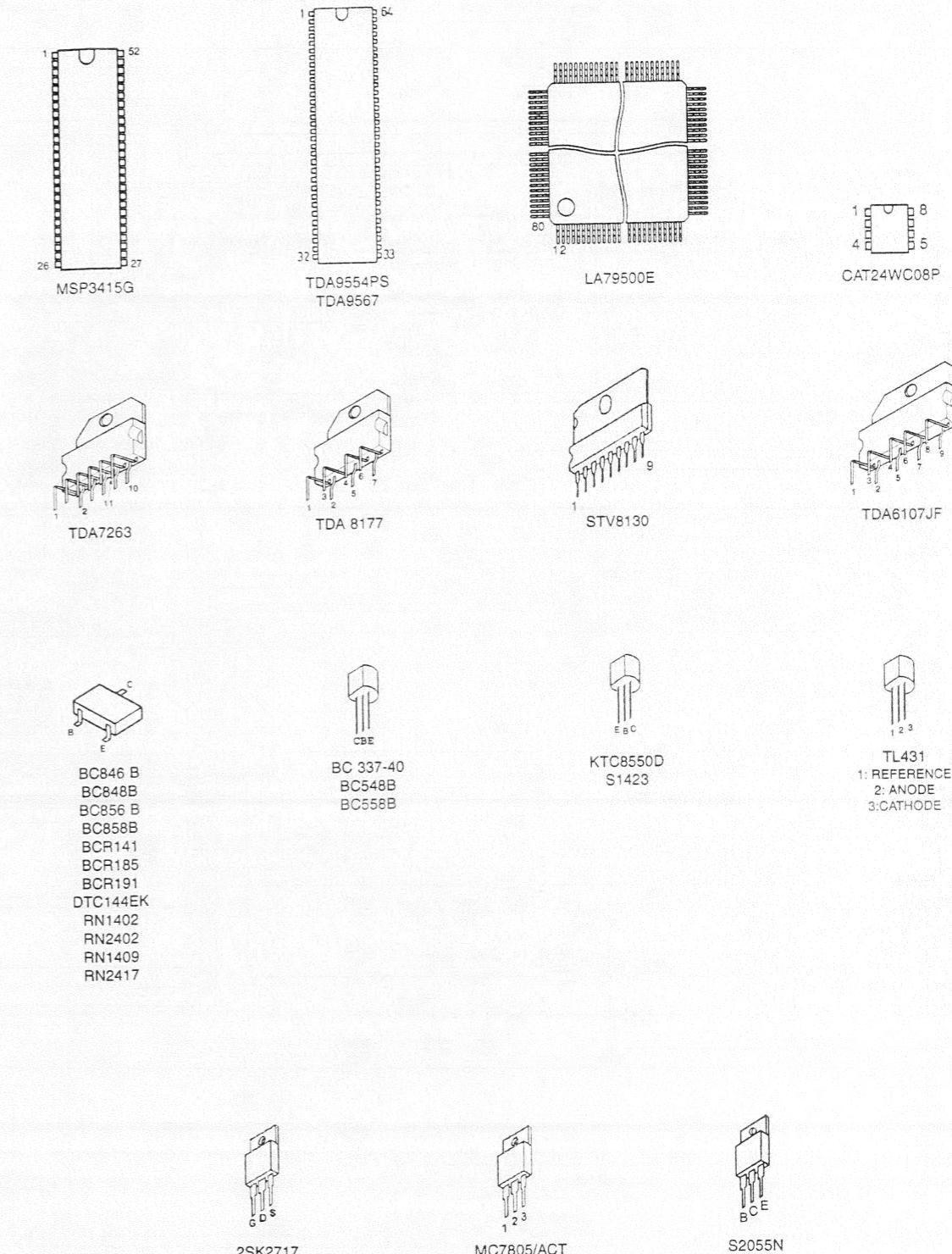
COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSITE -
LATO COMPONENTI - LADO COMPONENTES



SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

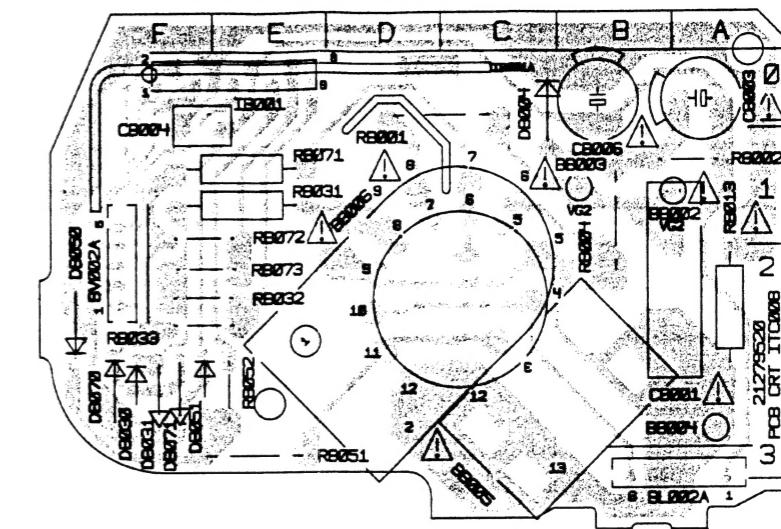
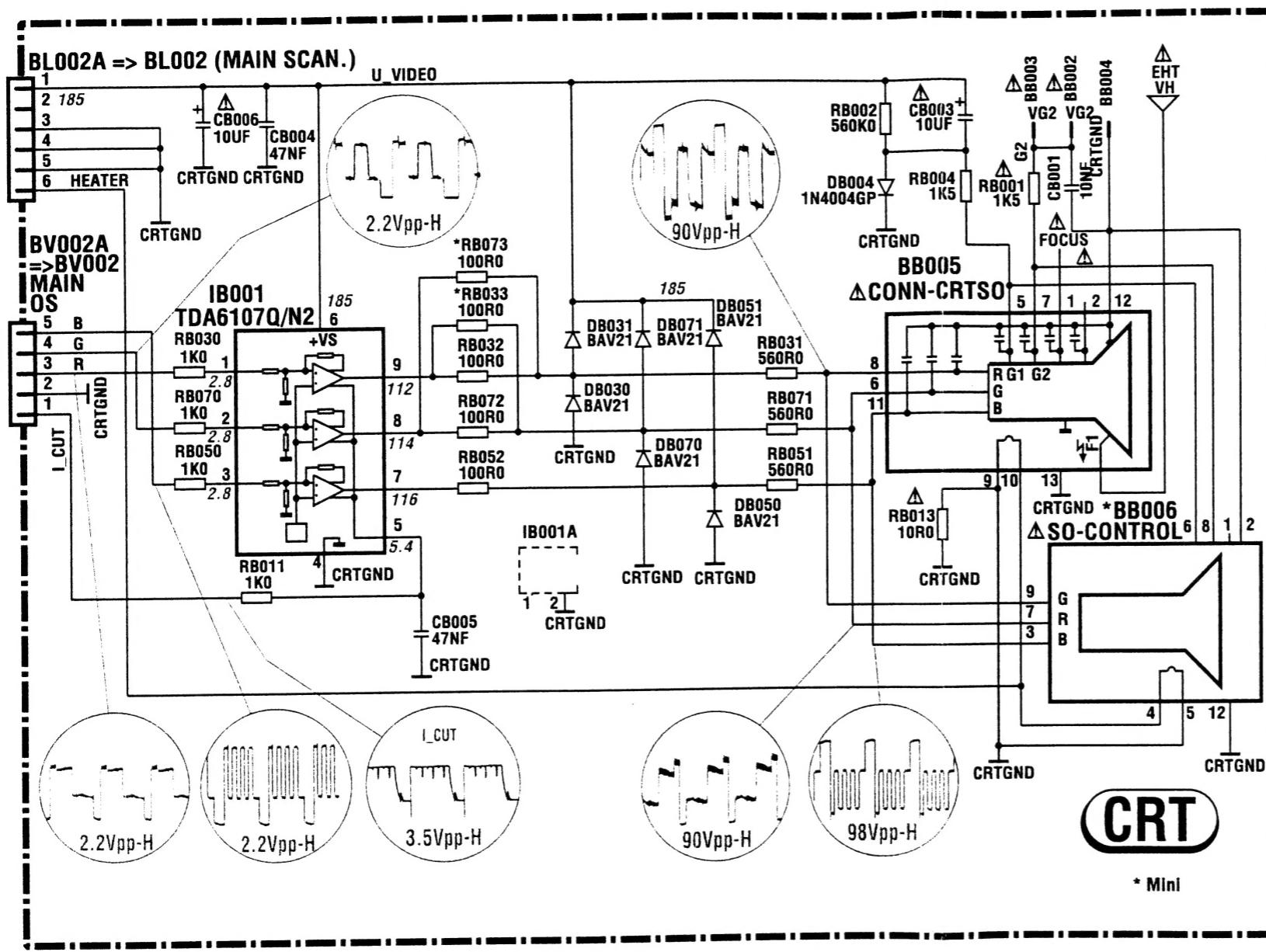


INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE - CIRCUITS INTEGRES ET TRANSISTORS
INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN - CIRCUITI INTEGRATI TRANSISTOR
CIRCUITOS INTEGRADOS Y TRANSISTORES

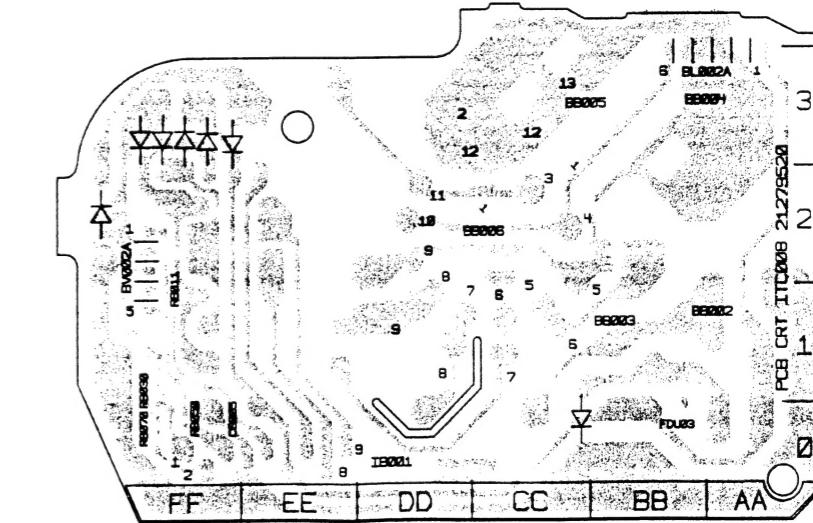


VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO

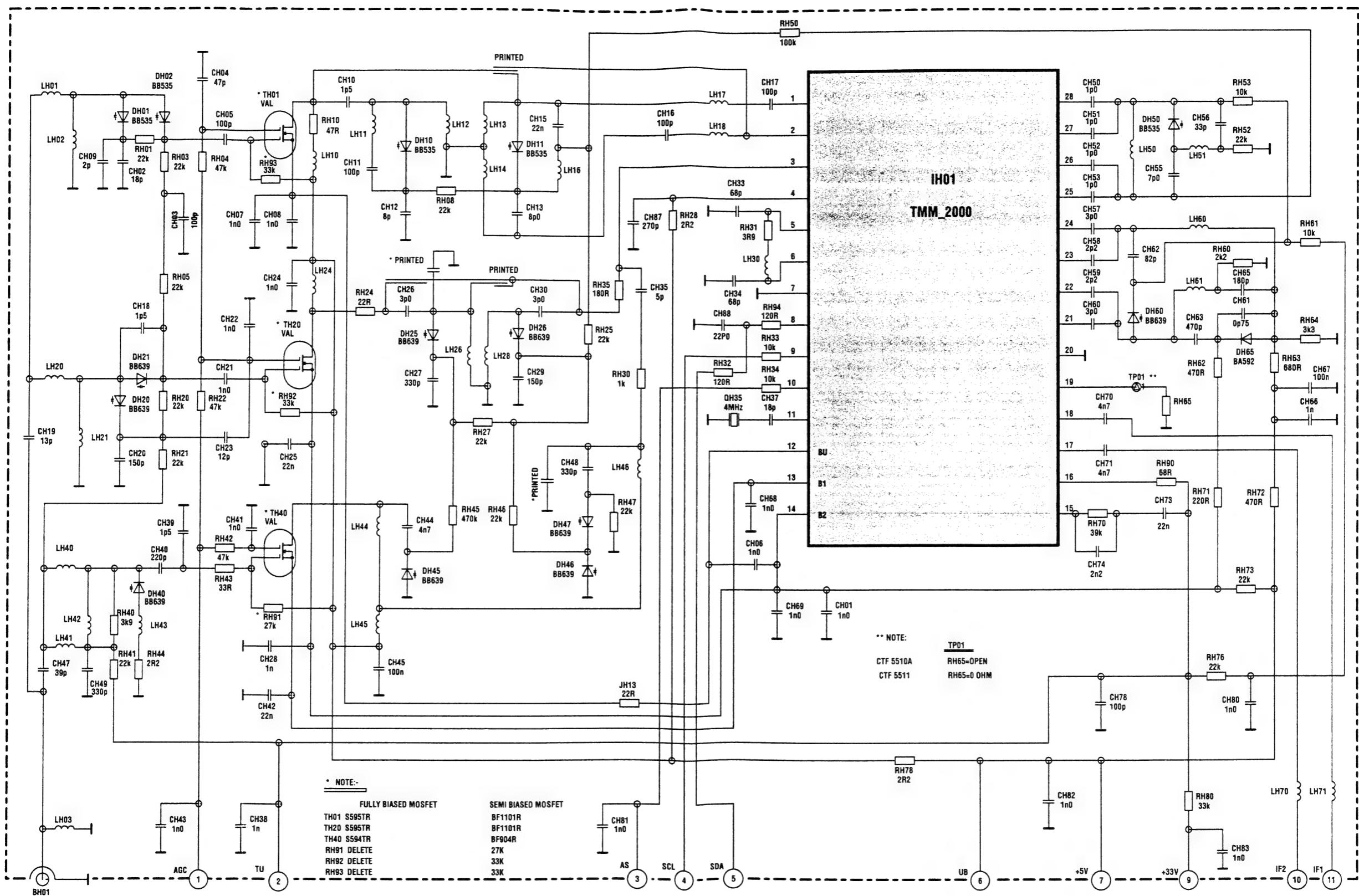
**COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSITE -
LATO COMPONENTI - LADO COMPONENTES**



SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE
- LADO SOLDADURAS



VHF / UHF TUNER CTF 5510 - CTF 5511

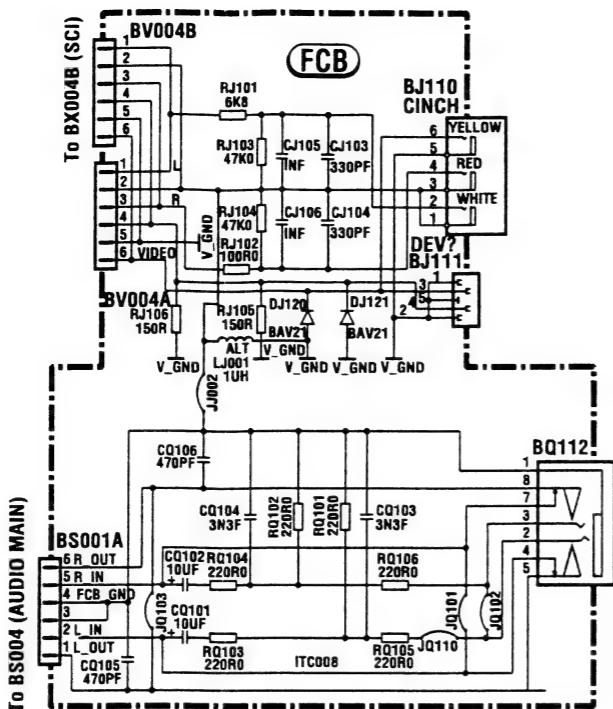


COMPONENTS LOCATION - LOCALISATION DES ELEMENTS - LAGE DER BAUTEILE
LOCALIZZAZIONE DEGLI ELEMENTI - LOCALIZACION DE LOS COMPONENTES

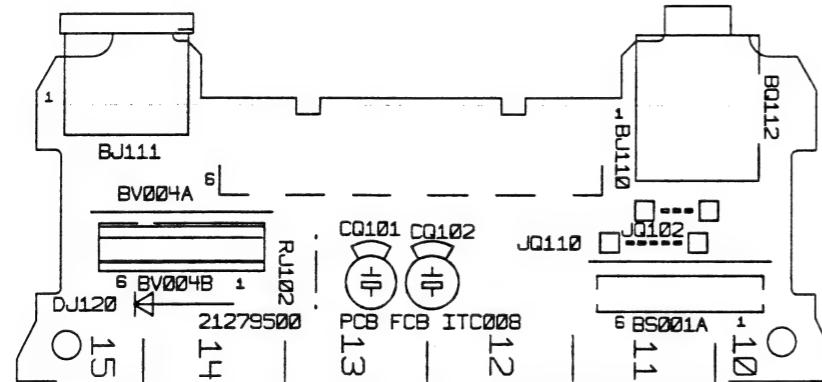
* SOLDER SIDE - COTE CUIVRE - LÖTSEITE - LATO SALDATURE - LADO DEL COBRE

1	2	3	BR001 * UU11	BR009 * FF7	CP018 H16	CS147 * JJ3	DP002 H10	JP031 * JJ7	JP067 N6	JS515 * HH2	RF102 * TT9	RP020 K11	RS203 * LL1	TL033 * SS11
BR002A S13	BR010 * NN1	CP022 K14	CS148 F5	DP003 J10	IP050 L16	JP068 M5	JS516 * HH1	RH002 * VV2	RH003 * WW2	RP021 K14	RP021 K14	RS204 * LL1	TL035 * S12	
BF002B R13	BR016 * SS0	CP024 J11	CS151 * KK3	DP004 J9	IP050 * MM16	JP069 M7	JS517 * KK0	RH004 * WW2	RH004 * WW2	RP023 J11	RP023 J11	RS205 * LL1	TL035 * SS13	
BH001 * XX1	BR016 * V3	CP025 J11	CS152 * KK3	DP005 J8	IR001 Q1	JP070 E14	JS518 * EE4	RH005 * WW2	RH005 * WW2	RP026 J14	RP026 J14	RS206 * MM1	TL035A * S14	
BH002 * W1	BS002 H0	CP032 M7	CS201 J2	DP023 K12	IR001 * PP1	JP071 E13	JS519 * FF4	RH006 * WW1	RH006 * WW1	RP027 J11	RP027 J11	RS207 * KK2	TL050 * VV14	
BH002 * WW1	BS002 HH1	CP033 K13	CS203 L2	DP026 K12	IS100 H3	JP072 E14	JS520 * GG3	RH010 * VV2	RH010 * VV2	RP028 J14	RP028 J14	RS208 * MM0	TL060 * UU10	
BH003 * G3	BS003 N7	CP034 M0	CS204 L0	DP027 L10	IS100 * HH3	JP073 E13	JS521 * LL2	RH012 * VV2	RH012 * VV2	RP029 J14	RP029 J14	RS210 * JJ2	TL061 * WW12	
BH002 * D5	BS004 G2	CP035 L7	CS205 LL0	DP028 K10	IS200 K0	JP074 N4	JS522 * FF6	RH014 * UU3	RH014 * UU3	RP030 H11	RP030 H11	RS211 * KK2	TL062 * WW13	
BJ005 * DD5	BS004 HH2	CP036 L7	CS206 H3	DP030 K15	JP075 Q7	JS523 * LL3	RH016 * UU3	RH016 * UU3	RP031 K13	RP031 K13	RS212 * JJ2	TP020 * L14		
BJ005 * D6	BS005 XX1	CP037 J12	CS207 K2	DP033 K14	JP076 M5	JS524 * LL4	RH018 * UU3	RH018 * UU3	RP032 K14	RP032 K14	RS214 * L2	TP020 * LL14		
BJ006 * DD6	BS006 WW0	CP038 H13	CS208 HH1	DP036 K7	JP082 P6	JS525 * KK4	RH020 * UU3	RH020 * UU3	RP033 K14	RP033 K14	RS215 * LL1	TP020A * L12		
BL001 U11	BS008 E4	CP040 J15	CS210 HH0	DP040 K13	IV001 U4	JP085 P8	JS526 * KK3	RH022 * UU3	RH022 * UU3	RP034 K14	RP034 K14	RS216 * JO	TP020C * L13	
BL002 S12	BS008 D04	CP050 L16	CS211 H1	DP057 P15	IV001 * SS4	JP121 * NN6	JS527 * LL2	RH024 * UU3	RH024 * UU3	RP035 K14	RP035 K14	RS217 * K15	TP022 * K15	
BL002 * XX11	BS009 M3	CP053 P16	CS212 HH1	DP061 P11	JE001 * DD8	JP162 * NN6	JS528 * LL1	RH026 * UU3	RH026 * UU3	RP036 K14	RP036 K14	RS218 * KK1	TP022 * KK15	
BL002 * SS12	BS009 MM3	CP060 P11	CS214 K2	DP063 N8	JE001 * DD8	JP163 * N6	JS529 * GG3	RH028 * UU3	RH028 * UU3	RP037 K14	RP037 K14	RS219 * H3	TP023 * J13	
BL003 T16	BV001 W7	CP062 Q10	CS215 GG3	DP071 F6	JE001 * DD8	JP164 * MM7	JS530 * GG3	RH030 * UU3	RH030 * UU3	RP038 H12	RP038 H12	RS220 * KK1	TP023 * JJ13	
BL003A T16	BV002 R7	CP063 N8	CS216 G4	DP080 P14	JE001 * DD8	JP165 * NN6	JS531 * KK3	RH032 * UU3	RH032 * UU3	RP039 H12	RP039 H12	RS221 * LL1	TP025 * J11	
BL003B T15	BV002 RR7	CP066 J7	CS217 JJ0	DP093 P8	JE001 * SS8	JP166 * NN6	JS532 * KK2	RH034 * UU3	RH034 * UU3	RP040 K15	RP040 K15	RS222 * L2	TP025 * LL14	
BL003C T15	BV004 F6	CP068 P10	CS218 RR4	DP097 N6	JE001 * SS8	JP167 * NN6	JS533 * VV3	RH036 * UU3	RH036 * UU3	RP041 K16	RP041 K16	RS223 * L3	TP026 * K15	
BL004 U15	BV004 FF6	CP080 P15	CS202 R3	DP099 H6	JE001 * SS8	JP168 * NN6	JS534 * VV3	RH038 * UU3	RH038 * UU3	RP042 P7	RP042 P7	RS224 * P7	TP027 * F11	
BL004 * TT15	BV006 EE6	CP082 P13	CS203 RR4	DR001 N3	JE001 * SS8	JP169 * NN6	JS535 * NN3	RH040 * UU3	RH040 * UU3	RP043 P7	RP043 P7	RS225 * Q04	TP028 * N16	
BL005 R14	ZB01 XX15	CP088 P13	CS210 RR3	DR002 PP1	JE001 * SS8	JP170 * NN6	JS536 * NN3	RH042 * UU3	RH042 * UU3	RP044 P7	RP044 P7	RS226 * N8	TP029 * NN15	
BL005A R13		CP094 P7	CS205 RR3	DR003 RR3	JE001 * SS8	JP171 * NN6	JS537 * NN3	RH044 * UU3	RH044 * UU3	RP045 P7	RP045 P7	RS227 * P7	TP030 * F66	
BL005B R13		CP097 L6	CS207 SS4	DR011 QQ4	JE001 * SS8	JP172 * NN6	JS538 * NN3	RH046 * UU3	RH046 * UU3	RP046 P7	RP046 P7	RS228 * F6	TP031 * F67	
BL006 S3		CP123 KK12	CS208 SS4	DR013 P4	JE001 * SS8	JP173 * NN6	JS539 * NN3	RH048 * UU3	RH048 * UU3	RP047 P7	RP047 P7	RS229 * R3	TP032 * N4	
BL007 V12		CP131 MM7	CS209 SS4	DR014 WW6	JE001 * SS8	JP174 * NN6	JS540 * NN3	RH050 * UU3	RH050 * UU3	RP048 P7	RP048 P7	RS230 * R5	TP033 * PP3	
BL007 * VV12		CP166 LL7	CS210 SS4	DR015 WW6	JE001 * SS8	JP175 * NN6	JS541 * NN3	RH052 * UU3	RH052 * UU3	RP049 P7	RP049 P7	RS231 * R5	TP034 * PP4	
BL008 W10		CP198 HH7	CS211 SS3	DR016 W4	JE001 * SS8	JP176 * NN6	JS542 * NN3	RH054 * UU3	RH054 * UU3	RP050 P7	RP050 P7	RS232 * S5	TP035 * PP5	
BL008 * WW10		CR001 PP1	CS212 SS4	DR017 W4	JE001 * SS8	JP177 * NN6	JS543 * NN3	RH056 * UU3	RH056 * UU3	RP051 P7	RP051 P7	RS233 * S5	TP036 * PP6	
BL009 W10		CR002 PP1	CS213 SS3	DR018 W4	JE001 * SS8	JP178 * NN6	JS544 * NN3	RH058 * UU3	RH058 * UU3	RP052 P7	RP052 P7	RS234 * S5	TP037 * PP7	
BP001 J13	CH001 UU1	CR003 PP1	CS214 SS3	DR020 W4	JE001 * SS8	JP179 * NN6	JS545 * NN3	RH060 * UU3	RH060 * UU3	RP053 P7	RP053 P7	RS235 * S5	TP038 * PP8	
BP001A HH13	CH002 W1	CR004 PP1	CS215 SS3	DR021 XX8	JE001 * SS8	JP180 * NN6	JS546 * NN3	RH062 * UU3	RH062 * UU3	RP054 P7	RP054 P7	RS236 * S5	TP039 * PP9	
BP001B HH13	CH003 W1	CR005 P3	CS216 SS3	DR022 W3	JE001 * SS8	JP181 * NN6	JS547 * NN3	RH064 * UU3	RH064 * UU3	RP055 P7	RP055 P7	RS237 * S5	TP040 * PP10	
BP001C HH13	CH004 VV2	CR006 QQ4	CS217 SS3	DR023 W3	JE001 * SS8	JP182 * NN6	JS548 * NN3	RH066 * UU3	RH066 * UU3	RP056 P7	RP056 P7	RS238 * S5	TP041 * PP11	
BP0013A* HH13	CH005 WW2	CR007 QQ4	CS218 SS3	DR024 W3	JE001 * SS8	JP183 * NN6	JS549 * NN3	RH068 * UU3	RH068 * UU3	RP057 P7	RP057 P7	RS239 * S5	TP042 * PP12	
BP0013B* HH13	CH006 WW2	CR008 QQ4	CS219 SS3	DR025 W3	JE001 * SS8	JP184 * NN6	JS550 * NN3	RH070 * UU3	RH070 * UU3	RP058 P7	RP058 P7	RS240 * S5	TP043 * PP13	
BP001A H13	CH010 UU2	CR009 N1	CS220 SS3	DR026 W3	JE001 * SS8	JP185 * NN6	JS551 * NN3	RH072 * UU3	RH072 * UU3	RP059 P7	RP059 P7	RS241 * S5	TP044 * PP14	
BP001B H13	CH011 WW2	CR010 QQ5	CS221 SS3	DR027 W3	JE001 * SS8	JP186 * NN6	JS552 * NN3	RH074 * UU3	RH074 * UU3	RP060 P7	RP060 P7	RS242 * S5	TP045 * PP15	
BP002 G11	CI010 TT1	CR011 RR3	CS222 SS3	DR028 W3	JE001 * SS8	JP187 * NN6	JS553 * NN3	RH076 * UU3	RH076 * UU3	RP061 P7	RP061 P7	RS243 * S5	TP046 * PP16	
BP002 * HH10	CI021 VV4	CR012 RR3	CS223 SS3	DR029 W3	JE001 * SS8	JP188 * NN6	JS554 * NN3	RH078 * UU3	RH078 * UU3	RP062 P7	RP062 P7	RS244 * S5	TP047 * PP17	
BP002A G10	CI023 UU2	CR013 XX4	CS224 SS3	DR030 W3	JE001 * SS8	JP189 * NN6	JS555 * NN3	RH080 * UU3	RH080 * UU3	RP063 P7	RP063 P7	RS245 * S5	TP048 * PP18	
BP002B G10	CI043 SS1	CR022 WW7	CS225 SS3	DR031 W3	JE001 * SS8	JP190 * NN6	JS556 * NN3	RH082 * UU3	RH082 * UU3	RP064 P7	RP064 P7	RS246 * S5	TP049 * PP19	
BP003 G14	CI045 UU2	CR023 QQ1	CS226 SS3	DR032 W3	JE001 * SS8	JP191 * NN6	JS557 * NN3	RH084 * UU3	RH084 * UU3	RP065 P7	RP065 P7	RS247 * S5	TP05	

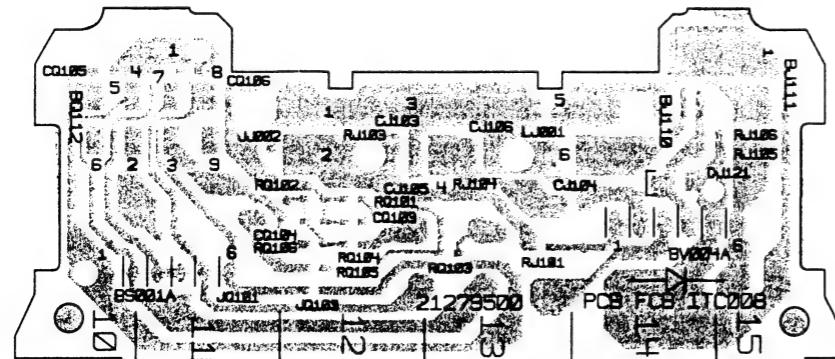
FRONT CONNECTOR BOARD - PRISES EN FACADE ET INTERCONNEXION DU CLAVIER - FRONT ANSCHLUSSPLATTE - PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL



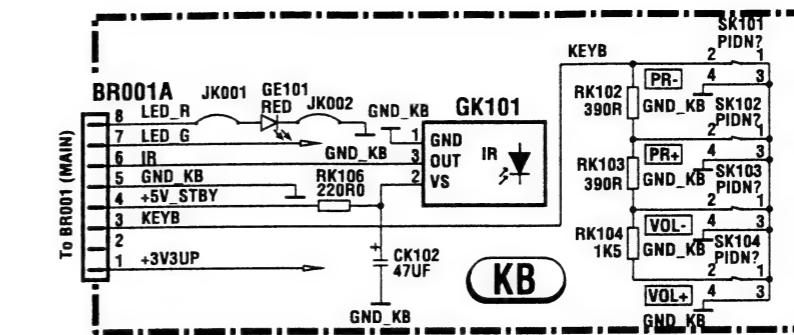
COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



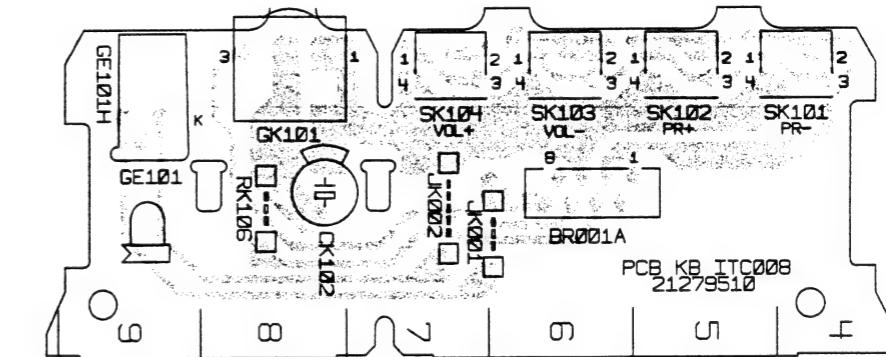
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



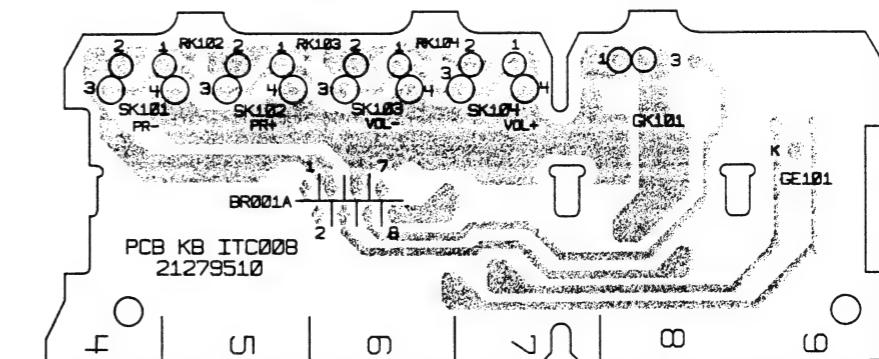
KEYBOARD - CIRCUITS DE COMMANDES - SCHALTBILD BEDIENTEIL - SCHEMA DEI CIRCUITI TASTIERA - ESQUEMA DE LOS CIRCUITOS MANDOS



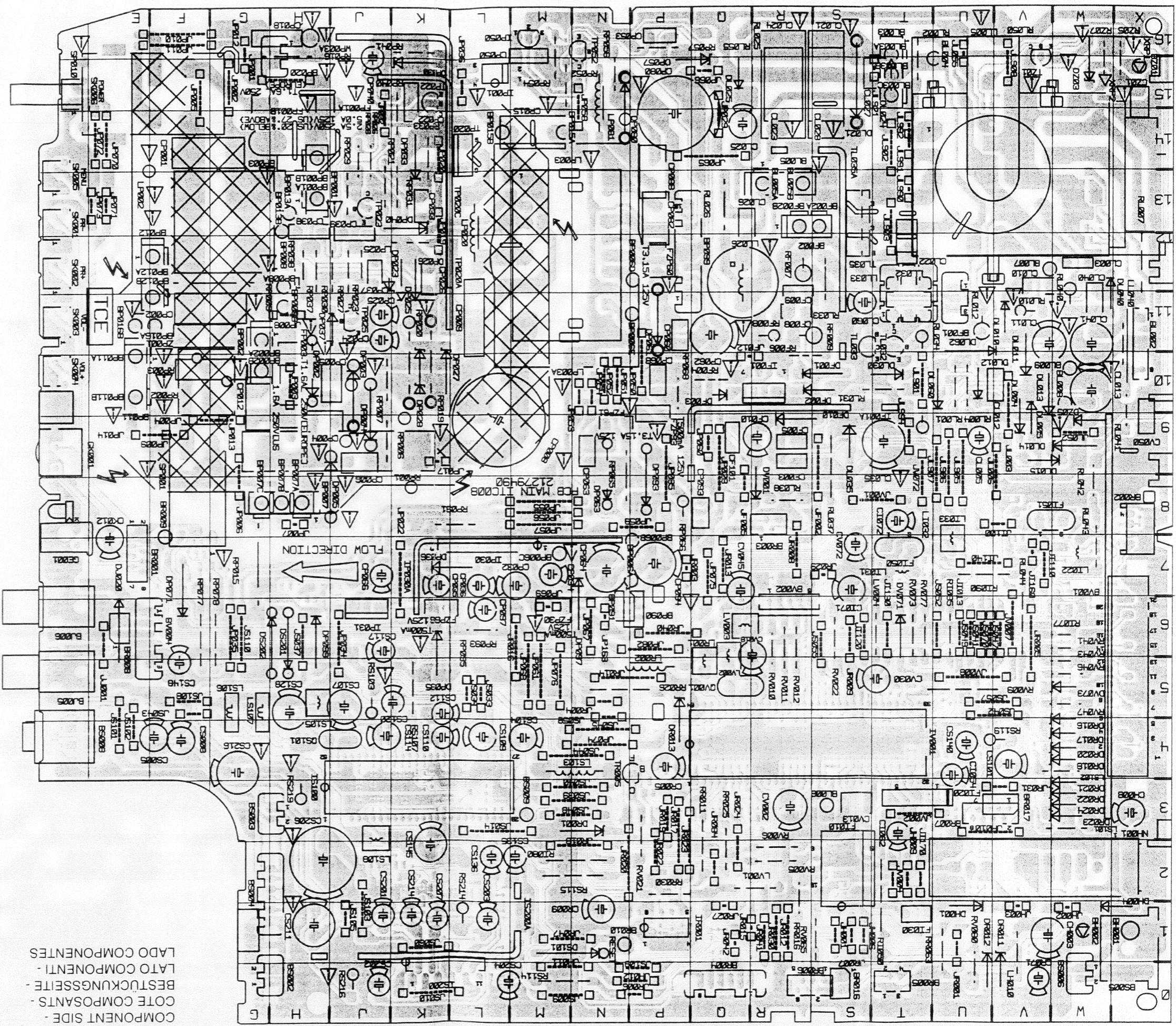
COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

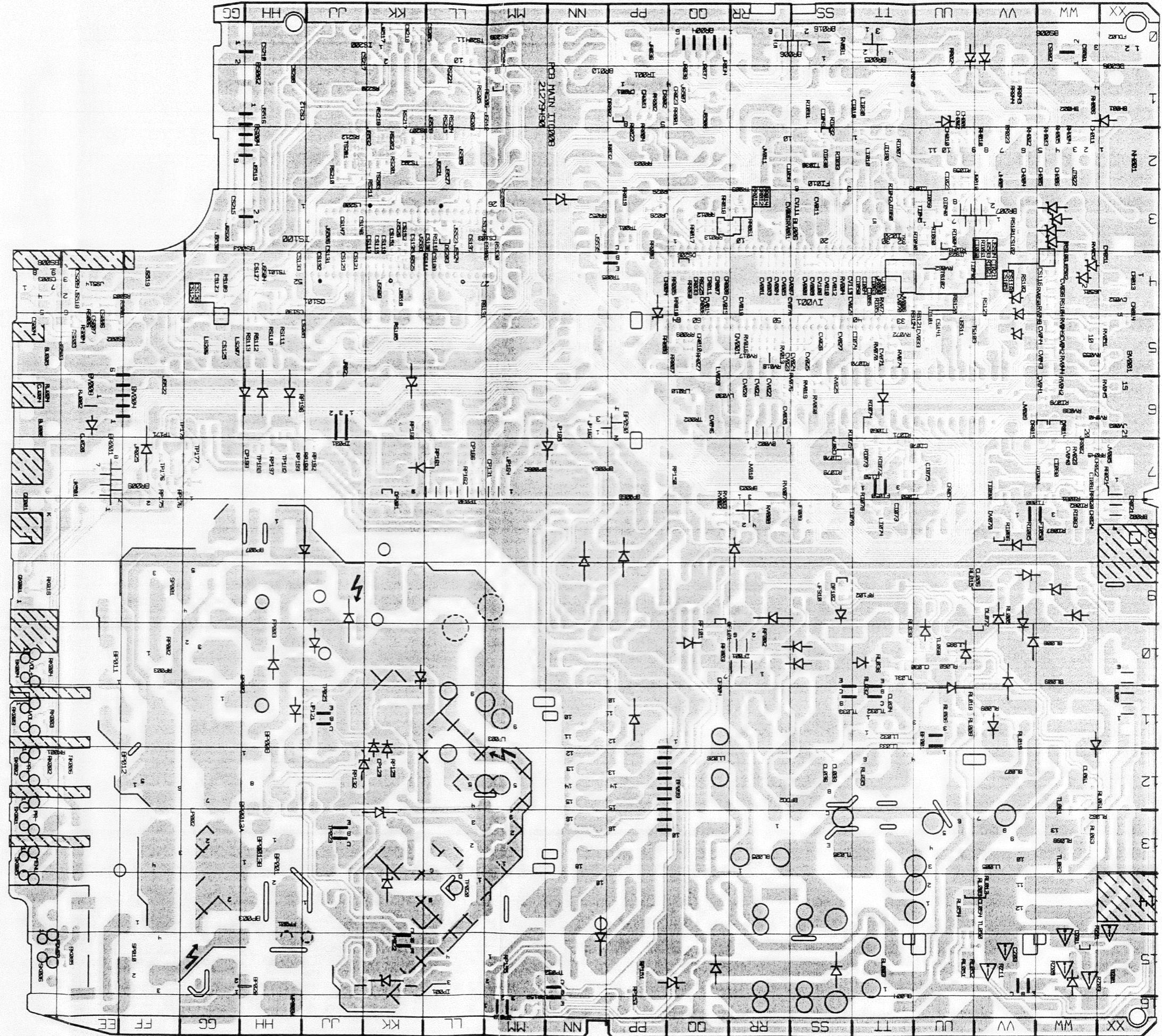


COMPONENT SIDE - COTE COMPOSANTS - BESTUCKUNGSEITE - LATO COMPONENTI - LADO COMPONENTES

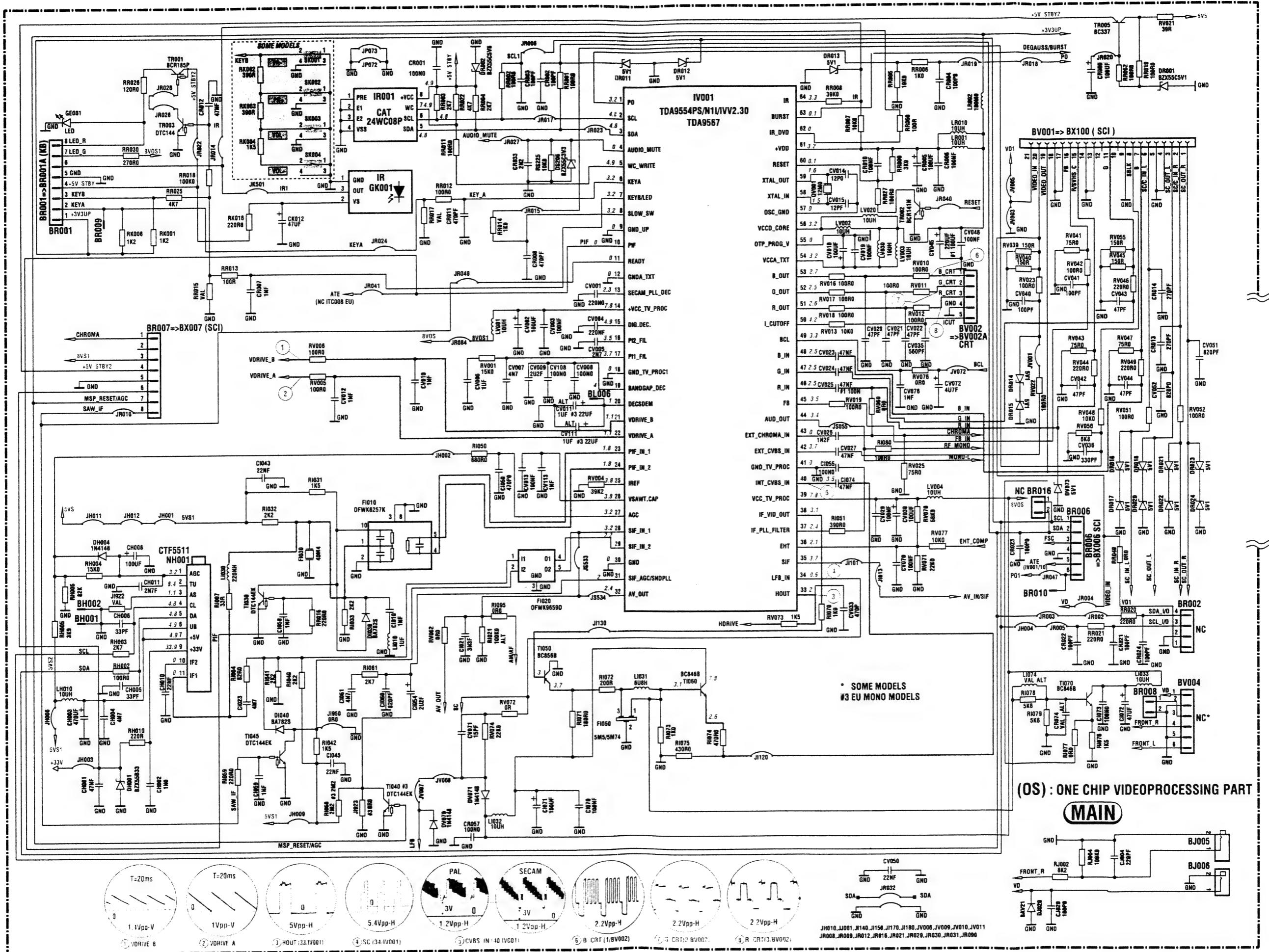


MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATE - PIASTRA PRINCIPALE - PLATINA PRINCIPAL

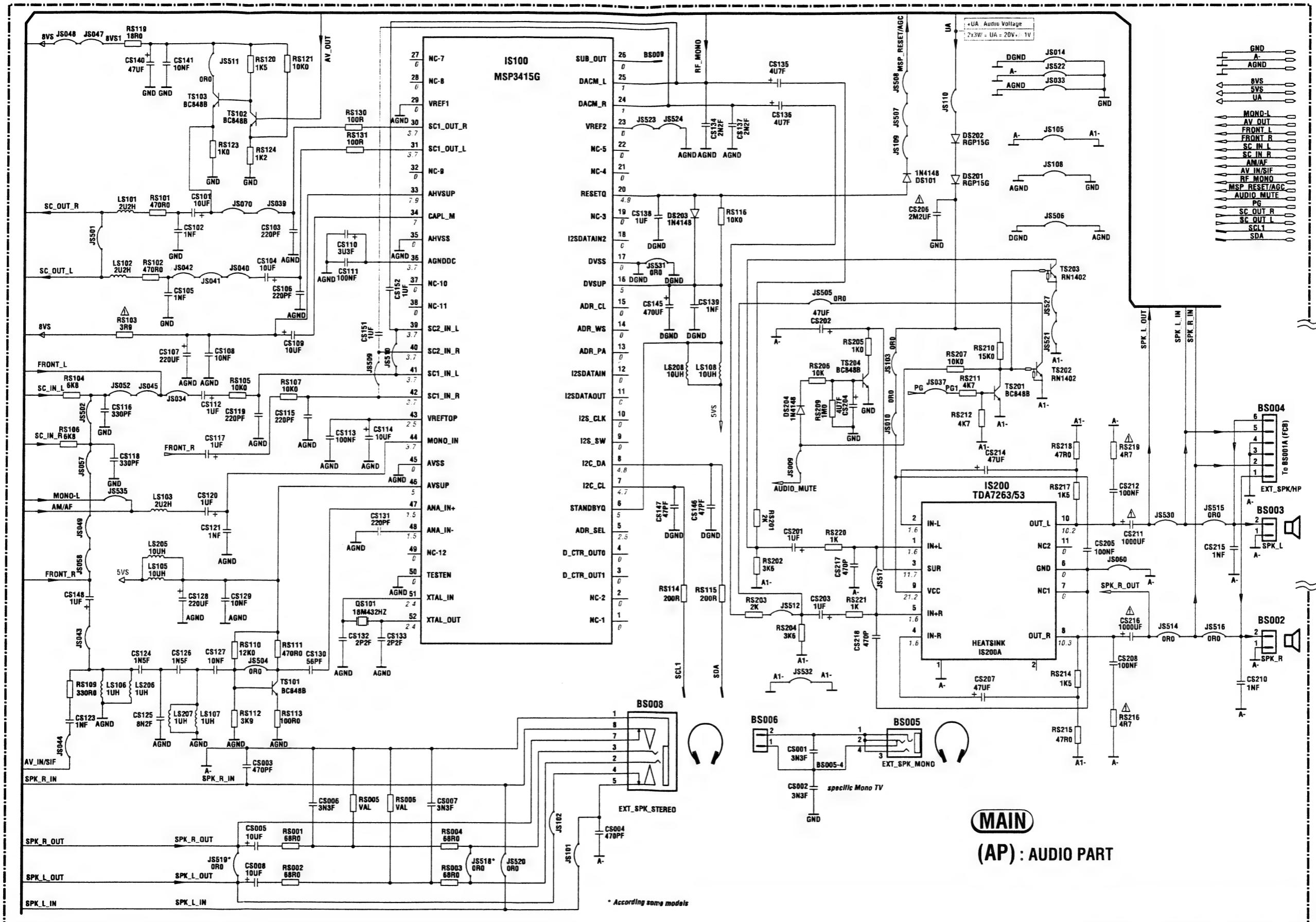
SOLDER SIDE -
CÔTE SOUTURE -
LATO SALDATURA -
LAZO SOLDADURA -



COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA



COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA



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ALIGNMENT PROCEDURE - PROCESSUS DE REGLAGES - ABGLEICH - VISUALIZZAZIONE DEL VALORE DI REGOLAZIONE - PROCEDIMIENTO DE ALINEACION

SET-UP LINES	
ET1 ID:	S2.3
INIT	
KEY	Off
LOCK	Off
LIMIT	<0-63> 32
ET1 ID:S2.3	
INIT	Initialise TV set.Press "OK" button. Sets all Service Mode functions stored in the EEPROM to their default values. See below the default values table.
△ "INIT"	copy all service parameters from the ROM to EEPROM. It will be necessary in this case to readjust most of the service mode functions.
△ "INIT"	copie toutes les valeurs par défaut stockées en ROM vers l'EEPROM. Il peut être nécessaire dans ce cas de reprendre la plupart des réglages du mode service.
△ "INIT"	kopiert alle Service-Parameter aus dem ROM in das EEPROM. Es ist anschließend notwendig die meisten Service-Funktionen neu abzulegen.
△ "INIT"	copia tutti i parametri di servizio dalla ROM alla EEPROM. Sarà necessario in seguito regolare alcune funzioni in Service Mode.
△ "INIT"	copia todos los valores por defecto memorizados en la ROM hacia la EEPROM. Puede ser necesario en el caso de tener que readjistar la mayor parte de los ajustes en Modo Servicio
Key Lock Pr+ Pr- on the front panel	ON : Disable the PR keys. Touches PR du clavier inactives. Disable the PR keys. Disable the PR keys. Disable the PR keys.
Lock Lock for Hotel Mode	Factory Setting
Limit Limit for Volume control	Factory Setting

VIDEO LINES																			
VG2	03																		
AGC	34																		
BKS*	01																		
OS-B	02																		
PKWS*	36 33 33																		
WPBS*	33																		
WPGS*	33																		
WPRS*	36																		
BLOGS*	37																		
BLORS*	32																		
YD	00																		
CL	11																		
ET1 ID:S2.3																			
INIT	Initialise TV set.Press "OK" button. Sets all Service Mode functions stored in the EEPROM to their default values. See below the default values table.																		
△ "INIT"	copy all service parameters from the ROM to EEPROM. It will be necessary in this case to readjust most of the service mode functions.																		
△ "INIT"	copie toutes les valeurs par défaut stockées en ROM vers l'EEPROM. Il peut être nécessaire dans ce cas de reprendre la plupart des réglages du mode service.																		
△ "INIT"	kopiert alle Service-Parameter aus dem ROM in das EEPROM. Es ist anschließend notwendig die meisten Service-Funktionen neu abzulegen.																		
△ "INIT"	copia tutti i parametri di servizio dalla ROM alla EEPROM. Sarà necessario in seguito regolare alcune funzioni in Service Mode.																		
△ "INIT"	copia todos los valores por defecto memorizados en la ROM hacia la EEPROM. Puede ser necesario en el caso de tener que readjistar la mayor parte de los ajustes en Modo Servicio																		
Key Lock Pr+ Pr- on the front panel	ON : Disable the PR keys. Touches PR du clavier inactives. Disable the PR keys. Disable the PR keys. Disable the PR keys.																		
Lock Lock for Hotel Mode	Factory Setting																		
Limit Limit for Volume control	Factory Setting																		
BKS Black Stretch	Factory Setting																		
OS_B Sub-Brightness	50% Grey scale test pattern white =100% TV : BG or L black																		
PKWS / PKWP**	50% Peak White SECAM/PAL Peak white test pattern. white = 100% colourimeter <table border="1"><tr><th>Sets</th><th>Nits</th></tr><tr><td>21" OT 90° sets</td><td>420 +/- 10%</td></tr><tr><td>21" XF-TTD</td><td>420 +/- 10%</td></tr><tr><td>25" XF Toshiba</td><td>300 +/- 10%</td></tr><tr><td>28" MP</td><td>300 +/- 10%</td></tr><tr><td>29" XF-Samsung</td><td>200 +/- 10%</td></tr><tr><td>29" XF TTD II</td><td>250 +/- 10%</td></tr><tr><td>33" MP</td><td>250 +/- 10%</td></tr><tr><td>34" XF TTD</td><td>200 +/- 10%</td></tr></table>	Sets	Nits	21" OT 90° sets	420 +/- 10%	21" XF-TTD	420 +/- 10%	25" XF Toshiba	300 +/- 10%	28" MP	300 +/- 10%	29" XF-Samsung	200 +/- 10%	29" XF TTD II	250 +/- 10%	33" MP	250 +/- 10%	34" XF TTD	200 +/- 10%
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33" MP	250 +/- 10%																		
34" XF TTD	200 +/- 10%																		

GEOMETRY LINES																			
VSH	32																		
SC	27																		
VA	37																		
VS	38																		
HSH	37																		
VSH																			
SC																			
VA																			
VS																			
V-Slope																			
- Apply a test pattern signal to the TV with a single horizontal and vertical line on the screen. - Select the "VS" line of the menu. - The bottom half of the screen will go black. - Adjust VS until the centre line of the pattern is just invisible. - Set the line "V_Slope". - Switch the test pattern signal to the crosshatch geometry pattern. - Perform the geometry adjustments described below.																			
Cut-off **																			
BLORS / BLORP																			
Black Level Offset Red SECAM/PAL																			
BLOGS / BLOGP																			
Black Level Offset Green SECAM/PAL																			
YD																			
Luminance Delay	Use to adapt the image																		
CL	Factory setting. Extension of the peak White range. Réglage usine. Extension des valeurs de réglages du Peak White. Fabrik-Einstellung (Umfang des Spitzweiß Einbereiches) Factory Setting. Extension of the peak White range. Ajuste de fábrica Extensión del margen del Peak White.																		
PKWS / PKWP**	50% Peak White SECAM/PAL Peak white test pattern. white = 100% colourimeter <table border="1"><tr><th>Sets</th><th>Nits</th></tr><tr><td>21" OT 90° sets</td><td>420 +/- 10%</td></tr><tr><td>21" XF-TTD</td><td>420 +/- 10%</td></tr><tr><td>25" XF Toshiba</td><td>300 +/- 10%</td></tr><tr><td>28" MP</td><td>300 +/- 10%</td></tr><tr><td>29" XF-Samsung</td><td>200 +/- 10%</td></tr><tr><td>29" XF TTD II</td><td>250 +/- 10%</td></tr><tr><td>33" MP</td><td>250 +/- 10%</td></tr><tr><td>34" XF TTD</td><td>200 +/- 10%</td></tr></table>	Sets	Nits	21" OT 90° sets	420 +/- 10%	21" XF-TTD	420 +/- 10%	25" XF Toshiba	300 +/- 10%	28" MP	300 +/- 10%	29" XF-Samsung	200 +/- 10%	29" XF TTD II	250 +/- 10%	33" MP	250 +/- 10%	34" XF TTD	200 +/- 10%
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34" XF TTD	200 +/- 10%																		
PKWS / PKWP**	Perform the G2 and the Focus settings beforehand. Effectuez au préalable les réglages de G2 et de focus. Stellen Sie zuvor G2 und "Focus" ein. Effettuare le regolazioni G2 e del Fuoco innanzitutto. Efectuar previamente los ajustes de G2 y Foco																		
PKWS / PKWP**	** Adjust separate for PAL / SECAM "S" : Video signal received is SECAM. "P" : Video signal received is PAL.																		

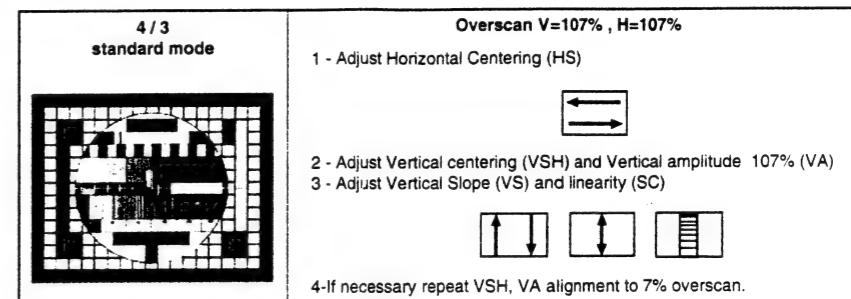
IF / SET-UP LINES	
OIF	24
OIF	Offset IF demodulator
Factory Setting OIF=24H	
VIDEO PROCESSOR LINES	
SOC*	03
SOC*	Peak White Limiting
Factory Setting SOC=03H	

* According to software version.
Selon version de software.

GEOMETRY MODE ALIGNMENT

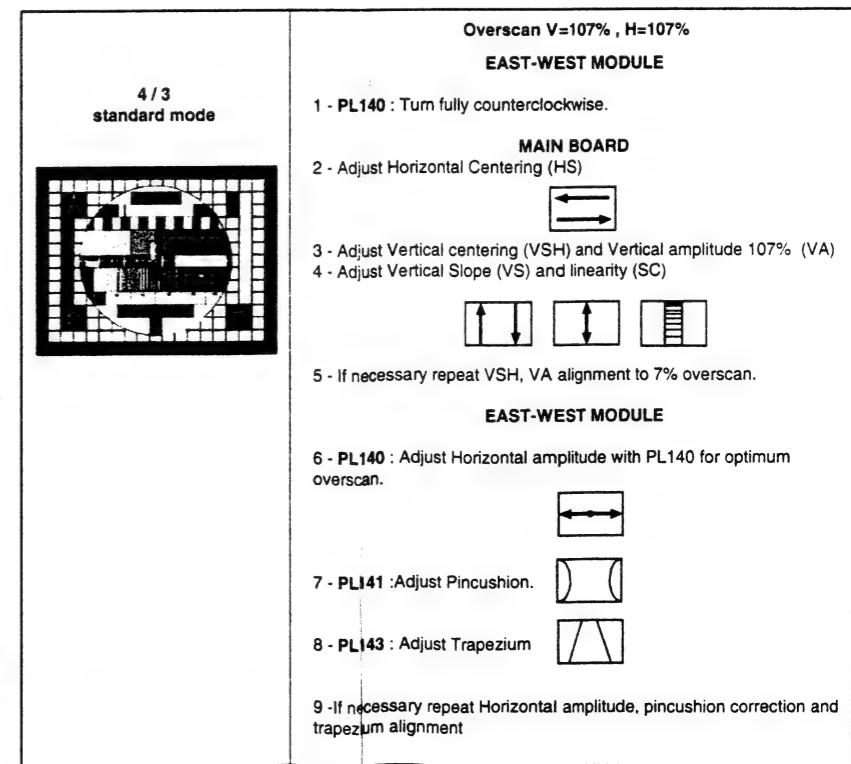
90° tube

Signal : 50 Hz - 4/3 test pattern



110° tube

Signal : 50 Hz - 4/3 test pattern



EACEM - SECTION CODES

COMMON	
ANT	ANTENNA SECTION
APR	SIGNAL PROCESSING (ANALOG)
BCH	BATTERY CHARGE
CLK	CLOCK/TIMER SECTION
CPA	COLOUR PROCESSING/ANALOG
CTR	CONTROL PANEL
DPR	SIGNAL PROCESSING (DIGITAL)
ERA	ERASE CIRCUIT
FLX	FLEXIBLE PRINTED CIRCUIT BOARD
HFS	HIGH FREQUENCY SECTION (RF)
IDS	INFORMATION DISPLAY SECTION
IFC	IF-CIRCUIT
ILN	i.LINK (IEEE1394) SECTION
INP	SIGNAL INPUT SECTION
IRD	INFRARED (IrDA) SECTION
MEM	MEMORY CIRCUIT
OUT	SIGNAL OUTPUT SECTION
PRG	PROGRAMMING SECTION
PRT	PROTECTION CIRCUIT
PSU	POWER SUPPLY
PWA	POWER AMP SECTION
REM	REMOTE CONTROL SECTION
RFU	BOOSTER,RF UNIT
SFT	SOFTWARE (TAPE, DISC, ETC.)
SNS	SENSOR UNIT
SVO	SERVO SECTION
SYS	SYSTEM CONTROL SECTION
TUN	TUNING SECTION
TXT	TEXT PROCESSING
SOUND-RELATED	
APA	AUDIO PROCESSING/ANALOG
APD	AUDIO PROCESSING/DIGITAL
CDC	CD CHANGER SECTION
CDS	CD SECTION
MDC	MD CHANGER SECTION
MDS	MINIDISC SECTION
MIC	MICROPHONE SECTION
PUD	PICK-UP DEVICE
SHD	STATIONARY HEAD(S)
SPK	SPEAKER
PICTURE-RELATED	
CAM	CAMERA CIRCUIT
CPD	COLOUR PROCESSING/DIGITAL
CRT	PICTURE TUBE
DFL	DEFLECTION CIRCUIT
DVD	DVD SECTION
FPK	FOCUS PACK
IMG	IMAGE DISPLAY UNIT

EXAMPLE OF USE:

FLAG SYMPTOM
CODE

A horizontal row containing twelve empty vertical rectangular boxes. These boxes are evenly spaced and extend from the baseline to a height slightly above it.

1 1 4 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 R 1 2 3 . . . T D M Y A 2 2 . . C 1 Z 1 . .

FLAG: INDICATES THE ONE MAJOR SYMPTOM/PART COMBINATION BY '1'

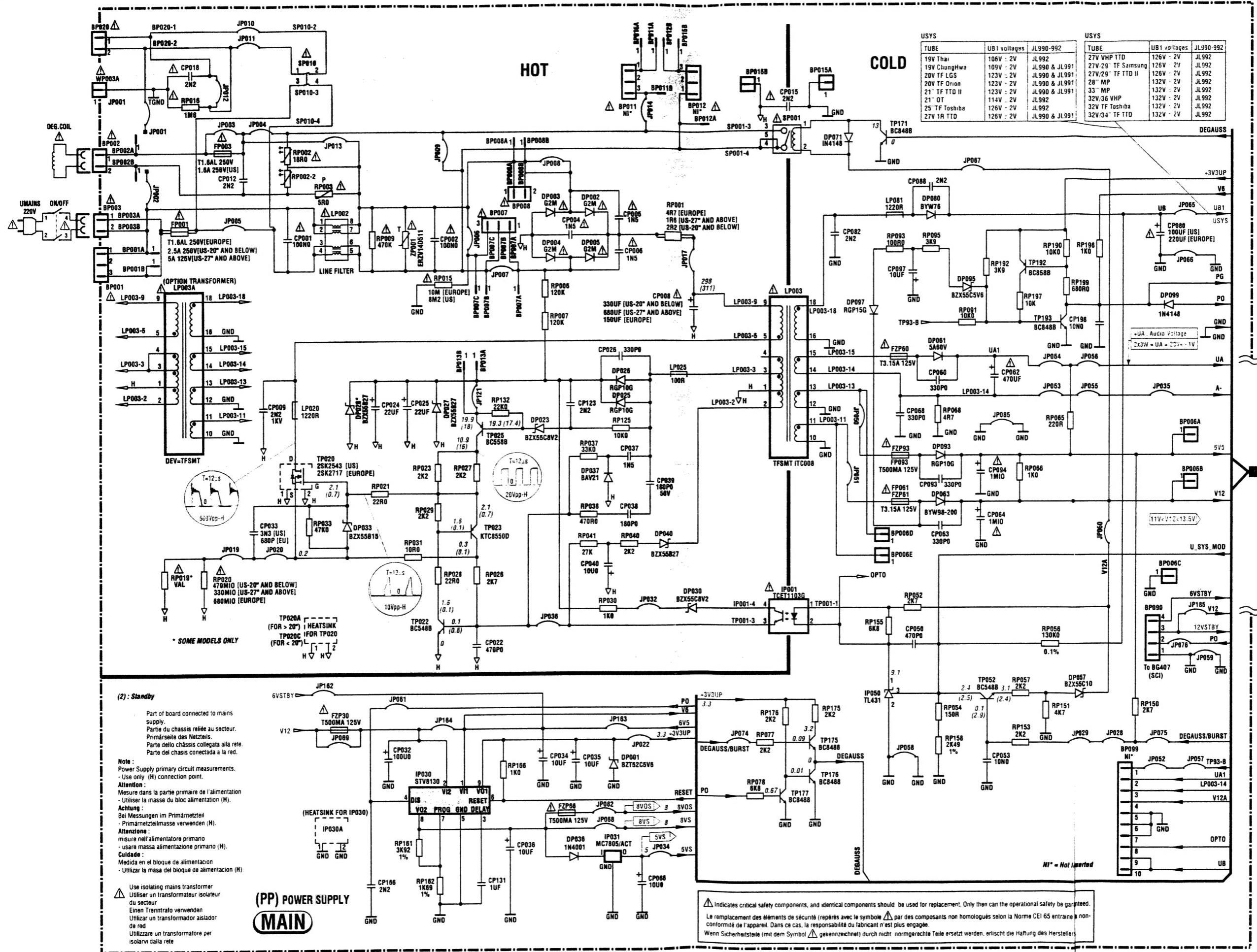
PICTURE-RELATED	
LCD	LCD SECTION
LMP	LAMP/FLASH SECTION
VPA	VIDEO PROCESSING/ANALOG
VPD	VIDEO PROCESSING/DIGITAL
VWF	VIEWFINDER
PC-RELATED	
FDD	FLOPPY DISC DRIVE
FMW	FIRMWARE
HDD	HARD DISC DRIVE
ISA	ISA SECTION
JST	JOYSTICK
KBD	KEYBOARD (SEPARATE)
MDM	MODEM SECTION
NIF	NETWORK INTERFACE
PAR	PARALLEL PORT
PCC	PC CARD
PCI	PCI SECTION
SCS	SCSI PORT
SER	SERIAL PORT
USB	USB PORT
MECHANICAL	
ARM	ARM MECHANISM
BZL	BEZEL
CBT	CABINET
CHA	CHASSIS
DDM	DISC DRIVE MECHANISM
EXC	EXTERNAL CONNECTOR
HCM	HEAD CARRIAGE MECHANISM
HOL	CASSETTE HOLDER
INC	INTERNAL CONNECTOR
LDG	LOADING MECHANISM
LNM	LENS MECHANISM
PFM	PAPER FEED MECHANISM
PIN	PINCH ROLLER/LEVER
PRI	PRINT BLOCK
RFM	RIBBON FEED MECHANISM
RHD	ROTARY HEAD(S)
SLD	SLED MECHANISM
SRS	SUPPLY REEL SECTION
STA	STATIC BLOCK
TDM	TAPE DRIVE MECHANISM
THR	THREADING MECHANISM
TNR	TENSION REGULATOR
TPT	TAPE PATH
TRS	TAKE-UP REEL SECTION
WIR	LEAD WIRE
XXX	CABINET/COSMETIC PARTS

DEFECT CODES	
MECHANICAL	
A	WORN OUT (OR GENERAL MECHANICAL DEFECT)
A1	MISOPERATING
B	DIRTY, CLOGGED
C	MECHANICALLY MISALIGNED
D	CUT, BROKEN
E	DEFORMED
F	SNAPPED
G	SCRATCHED, DENTED, SHARP EDGES
H	CRACKED, PEELED, CORRODED, MELTED
I	LOOSE/OFF/STRIPPED
J	SHAKY, UNSTABLE
K	LEAKING (MECHANICAL)
L	DRY (NO LUBRICANT)
M	FOREIGN OBJECT
ELECTRICAL	
N	DEFECTIVE ELECTRICAL COMPONENT/MODULE
O	BURNT, ARCING, MISSING PIXELS
P	ELECTRICALLY MISALIGNED/WRONGB SETTING
Q	SHORT CIRCUIT
R	OPEN CIRCUIT
S	LEAKING (ELECTRICAL)
T	BAD CONTACT, CONNECTION
T1	BAD EARTH CONNECTION
U	OPEN PATTERN
V	CRACKED PRINTED CIRCUIT BOARD
W	COLD OR NO SOLDERING
X	BRIDGED SOLDERING
Y	WRONG COMPONENT/MODULE
Z	MISSING COMPONENT/MODULE
1	SOFTWARE PROBLEM
11	LOSING DATA FROM MEMORY
12	FAULTY PROGRAM SETTING/INSTALLATION
13	SOFTWARE DEFECTIVE OR INCOMPLETE
14	SOFTWARE SETUP PROBLEM
15	NO IDENTIFICATION / AUTHENTICATION OF PRODUCT OR USER
2	EXHAUSTED, LOW EMISSION
3	NO PROBLEM FOUND (SET WITHIN SPEC)
4	NO PROBLEM FOUND - CUSTOMER MISUNDERSTANDING
5	NO PROBLEM FOUND - LOCAL CONDITIONS
51	FAULTY MAINS VOLTAGE
6	UNABLE TO DIAGNOSE FAULT
7	INCORRECTLY WIRED/ASSEMBLED
81	INCORRECT EQUIPMENT CONNECTION
9	CUSTOMER MISUSE
93	UNAUTHORISED MODIFICATION

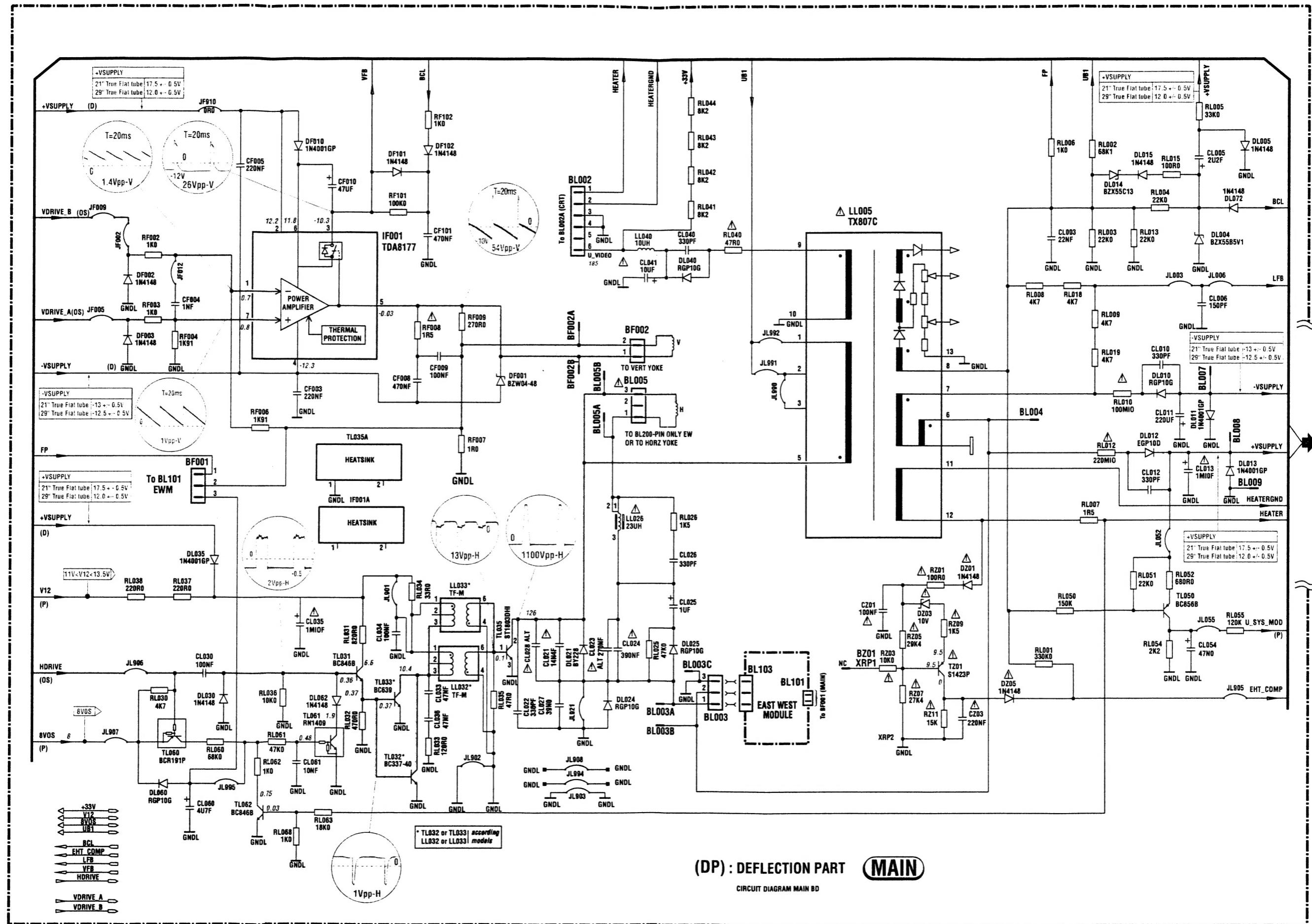
REPAIR CODES

A	REPLACEMENT	Q	PREVENTIVE ACTION WITHOUT PARTS REPLACEMENT
B	MECHANICAL ALIGNMENT	U	EXPLANATION FOR CUSTOMER
C	ELECTRICAL ALIGNMENT	V	COST ESTIMATION REFUSED
D	RESOLDERING	W	COST ESTIMATION WITH PARTS
D1	REFITTING, PUT BACK IN POSITION (CONNECTOR, TUBE...)	X	COST ESTIMATION WITHOUT PARTS
E	CLEANING	Y	RETURN WITHOUT REPAIR
F	LUBRICATION	Z	PRODUCT EXCHANGE
G	REPAIRED ELECTRICAL PARTS	Z1	PRODUCT EXCHANGE (REPAIR TOO EXPENSIVE)
H	REPAIRED MECHANICAL PARTS	Z2	PRODUCT EXCHANGE (TOO MANY VISITS/REPAIRS)
I	MODIFICATION REQUESTED BY MANUFACTURER	Z3	PRODUCT EXCHANGE (PARTS NOT AVAILABLE)
J	REMOVED	Z4	PRODUCT EXCHANGE (IMPOSSIBLE TO REPAIR)
K	ADDED	Z5	PRODUCT EXCHANGE (ON REQUEST OF RETAILER)
L	FUNCTIONAL CHECK	Z6	PRODUCT EXCHANGE (ON REQUEST OF MANUFACTURER)
M	SPECIFICATION MEASUREMENT	1	SOFTWARE CORRECTION/RESET
N	MAINTENANCE	2	SOFTWARE UPGRADE
O	REFURBISHING, RECONDITIONING	3	PRODUCT UPGRADE (ON REQUEST)
P	PREVENTIVE PARTS REPLACEMENT		

COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPÉE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA



COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA



ITC008
First issue 04 / 03

□ | □ — □ | □ → EXTENDED SYMPTOM CODE
(*)

EACEM-IRIS REPAIR CODING SYSTEM

CONDITION CODE	MAIN SYMPTOM CODE
1	CONSTANTLY
2	INTERMITTENTLY
3	AFTER A WHILE
4	IN A HOT ENVIRONMENT
5	IN A COLD ENVIRONMENT
6	WHEN SWITCHING
7	UNDER VIBRATION
8	IN A DAMP/WET/ RAINY/HUMID ENVIRONMENT
9	IN A DRY ENVIRONMENT
A	AFTER BEING DROPPED/THROWN/DAMAGE
B	AFTER LIGHTNING STRIKE
C	ONLY CERTAIN STATIONS/ SOFTWARE/ MODE/ CHANNELS/ FREQUENCY BANDS
D	ONLY ON CERTAIN STANDARDS
E	ONLY ON ONE CHANNEL
F	ONLY WITH CERTAIN INPUTS
G	ONLY ON CERTAIN OUTPUTS
H	IN STANDBY/OFF MODE
J	AT EDIT POINT
K	WHEN INTERCONNECTED
L	LIQUID CONTAMINATION
M	FOR A SHORT WHILE AFTER SWITCH-ON
N	AFTER MAKING A COPY
O	UNDER STRESSED CONDITIONS / HIGH LOAD
P	AT SWITCH-OFF

(*)

CAUTION

THE 'X' EXTENDED SYMPTOM CODES ('*-*X') SHOULD ONLY BE USED TO INDICATE THAT A SUITABLE SYMPTOM DESCRIPTION IS NOT AVAILABLE IN THE CONCERNED SYMPTOM GROUP

SYMPTOM CODE TABLE

EACEM  **IRIS**

1	NO ACTION	2	LEVEL	3	QUALITY	4	NOISE	
1	POWER PROBLEM OR NOT OPERATING	120	CHARGING PROBLEM	130	DISPLAY FUNCTION PROBLEM	140	ABNORMAL NOISE	
110	NO POWER	121	NO BATTERY CHARGING	131	FAULTY DISPLAY	141	CRT DISCHARGING NOISE	
111	NO POWER WHEN USING AC-ADAPTER	122	INCOMPLETE BATTERY CHARGE	132	FAULTY LAMPED OPERATION	142	EHT DISCHARGING NOISE	
112	NO POWER WHEN USING DRY BATTERIES	123	CHARGING TIME TOO LONG	133	FAULTY LEVEL METER OPERATION	143	NOISY CABINET/CRACKING TRAYS	
113	NO POWER WHEN USING RECHARGEABLE BATTERIES	12X	OTHER 'CHARGING' PROBLEM	134	FAULTY ON-SCREEN DISPLAY OPERATION	144	NOISY TRANSFORMER/HUMMING	
114	NO POWER FROM SOLAR CELL			135	ELectRONIC TUNING DISPLAY FAULT	145	NOISY COMPONENT(S)	
115	NO POWER WHEN USING A CAR BATTERY			136	MECHANICAL TUNING DISPLAY FAULT	146	RATTLE	
116	SHORT OPERATION TIME/SHORT BATTERY LIFE			137	FAULTY MECHANICAL DISPLAY	147	CLICKING	
117	POWER OFF/FUNCTION NOT WORKING			138	DISPLAY ALARM/ERROR DISPLAY	148	CLOCK NOISE	
118	NO SWITCH-ON FROM STANDBY			139	UNUSUAL OR INCORRECT MESSAGE IN DISPLAY	149	CRACKING	
119	POWERS UP, BUT NO OPERATION			140	NO BACKLIGHT	14A	WHISTLING	
118	CYCLIC POWER ON/OFF			141	BEEPS.	14X	OTHER 'ABNORMAL' NOISE	
119	BLOWING EXTERNAL (MAINS) FUSE			142	NO DISPLAY			
110	SET SWITCHES OFF BY ITSELF			143	WARNING LIGHT DOES NOT WORK			
111	BACKUP BATTERY PROBLEM			144	WARNING LIGHT LIGHTS UP			
11F	NOT OPERATING			145	OTHER 'DISPLAY FUNCTION' PROBLEM			
11G	NO AUTOMATIC SWITCH ON/OFF PROTECTION			146				
11H	PROTECTION SWITCH/FUSE IN SET TRIGGERS			147				
11J	RECHARGEABLE BATTERY NOT RECOGNIZED			148				
11X	OTHER POWER PROBLEM			149				
1	GENERAL			150	REMOTE CONTROL PROBLEM	160	PHYSICAL DAMAGE	
110	NO ACTION			151	NO REMOTE CONTROL OPERATION	170	GENERAL FUNCTION PROBLEM	
111	POWER PROBLEM OR NOT OPERATING			152	INCORRECT REMOTE CONTROL OPERATION	171	FAULTY CLOCK FUNCTION	
112	NO POWER			153	REMOTE CONTROL PROGRAMMING/ LEARNING MODE PROBLEM	172	FAULTY SLEEP FUNCTION	
113	NO POWER WHEN USING AC-ADAPTER			154	POOR REMOTE CONTROL SENSITIVITY	173	FAULTY PROGRAMMING	
114	NO POWER WHEN USING DRY BATTERIES			15X	OTHER REMOTE CONTROL PROBLEM	174	INITIAL SETUP/INSTALLATION REQUESTED	
115	NO POWER WHEN USING RECHARGEABLE BATTERIES					175	MODIFICATION/CIRCUIT/INSTALLATION CHANGE	
116	NO POWER FROM SOLAR CELL					176	WRONG PRODUCT IN CARTON	
117	NO POWER WHEN USING A CAR BATTERY					177	ACCESSORY MISSING	
118	SHORT OPERATION TIME/SHORT BATTERY LIFE					178	UNABLE TO CONNECT PARTS/-TO ASSEMBLE	
119	POWER OFF/FUNCTION NOT WORKING					179	WRONG COLOUR	
119	NO SWITCH-ON FROM STANDBY					180	BATTERY MOUNTING PROBLEM	
118	POWERS UP, BUT NO OPERATION					181	OTHER SPECIAL REQUIREMENTS	
118	CYCLIC POWER ON/OFF					182	TEST AND CHECK	
119	BLOWING EXTERNAL (MAINS) FUSE					183	GENERAL FAILURE	
110	SET SWITCHES OFF BY ITSELF					184	SYSTEM/FREQUENCY CONVERSION	
111	BACKUP BATTERY PROBLEM					185	INITIAL SETUP/INSTALLATION REQUESTED	
11F	NOT OPERATING					186	MODIFICATION/CIRCUIT/INSTALLATION CHANGE	
11G	NO AUTOMATIC SWITCH ON/OFF PROTECTION					187	WRONG PRODUCT IN CARTON	
11H	PROTECTION SWITCH/FUSE IN SET TRIGGERS					188	ACCESSORY MISSING	
11J	RECHARGEABLE BATTERY NOT RECOGNIZED					189	UNABLE TO CONNECT PARTS/-TO ASSEMBLE	
11X	OTHER POWER PROBLEM					18X	WRONG COLOUR	
1	COMMUNICATION					190	SYNTHESIZER/MODEM PROBLEM	
210	NO RECEPTION OR CONNECTION	220	POOR RECEPTION OR CONNECTION	230	TRANSMISSION/CONNECTION PROBLEM	240	NOISY RECEPTION/TRANSMISSION	
211	NO AM RECEPTION	221	POOR AM RECEPTION	231	NO TRANSMISSION/CONNECTION	241	LINE NOISE	
212	NO FM RECEPTION	222	POOR FM RECEPTION	232	POOR TRANSMISSION/CONNECTION	242	OSCILLATION	
213	NO SW RECEPTION	223	POOR SW RECEPTION	233	TRANSMISSION LEVEL TOO HIGH	243	INTERSTELLAR INTERFERENCE	
214	NO UHF RECEPTION	224	POOR UHF RECEPTION	234	OTHER NO TRANSMISSION BETWEEN BASE UNIT AND HANDSET	244	OTHER NOISY RECEPTION/TRANSMISSION PROBLEM	
215	NO BS RECEPTION	225	POOR BS RECEPTION	235	POOR TRANSMISSION BETWEEN BASE UNIT AND HANDSET	245		
216	NO CS RECEPTION	226	POOR CS RECEPTION	236	NOIR TRANSMISSION	246		
217	NO HDV RECEPTION	227	POOR HDV RECEPTION	237	ONE-SIDED CONNECTION	247		
218	NO GPS/QPS RECEPTION	228	POOR GPS/QPS RECEPTION	238	MODEM HANGS UP IMMEDIATELY ONCE	248		
219	NO RECEPTION OF DIGITAL BROADCASTING	229	POOR RECEPTION OF DIGITAL BROADCASTING	239	MODEM DROPS LINE DURING CONNECTION	249		
21A	NO DIAL TONE	22A	NO IR RECEPTION	240	OTHER TRANSMISSION/CONNECTION PROBLEM	250	UNSTABLE RECEPTION/TRANSMISSION	
21B	NO MODEM/FAX CONNECTION	22B	NO IR RECEPTION			251	TUNING PROBLEM	
21C	MOBILE PHONE ANSWERING/NO CARRIER	22C	NO IR RECEPTION			252	MANUAL TUNING PROBLEM	
21D	NO NETWORK CONNECTION/NETWORK INITIALIZATION FAILS	22X	OTHER NO RECEPTION PROBLEM			253	FADE/FADEAWAY	
21E						254	INCORRECT TUNING	
21F						25X	NO OR UNSTABLE CONNECTION COMBINED WITH WEAK SIGNAL STRENGTH/ INDICATION	
21X							260	UNSTABLE Reception/TRANSMISSION
3	PICTURE					261	TUNING DRIFT	
310	NO PICTURE	320	PICTURE LEVEL PROBLEM	330	PICTURE QUALITY PROBLEM	340	PICTURE NOISE	
311	NO PICTURE IN E TO E MODE	321	PICTURE TOO DARK	341	SNOWY PICTURE	350	UNSTABLE PICTURE	
312	NO PICTURE IN PLAYBACK MODE	322	PICTURE TOO BRIGHT	342	DOT NOISE OR DROPOUT ON PICTURE	360	POOR PICTURE RECORDING	
313	NO PICTURE IN VIEWFINDER	323	CONTRAST TOO LOW	343	POOR FOCUS	370	SPECIAL PICTURE FUNCTION PROBLEM	
314	NO PICTURE, ONLY RASTER	324	CONTRAST TOO HIGH	344	PICTURE TOO DARK	380	PICTURE DISPLAY/PICKUP PROBLEM	
315	NO RASTER, ONLY PICTURE	325	SATURATED WHITE OR BLACK LEVEL	345	PICTURE TOO BRIGHT	390		
316	ONLY HORIZONTAL LINE	326	SATURATED WHITE OR BLACK LEVEL	346	BLANKING LINES ON PICTURE	391		
317	ONLY VERTICAL LINE	327	ONLY PARTIAL PICTURE	347	BLANKING LINES ON PICTURE	392		
318	NO PICTURE IN LCD	328	OTHER PICTURE LEVEL PROBLEM	348	SHADING ON PICTURE	393		
319	NO 2nd (OR HIGHER) MONITOR DISPLAY	329		349	PICTURE SLANTED	394		
31X	OTHER NO PICTURE PROBLEM	32X		350	V-SIZE INCORRECT	395		
4	COLOUR			351	H-SIZE INCORRECT	396		
410	NO COLOUR	420	COLOUR LEVEL PROBLEM	430	POOR COLOUR QUALITY	440	NOISY COLOUR	
411	NO COLOUR IN E TO E MODE	421	WEAK COLOUR	431	SOME OR ALL COLOURS MISSING	441	COLOUR NOISE ON A BLACK & WHITE PICTURE	
412	NO COLOUR IN PLAYBACK MODE	422	EXCESSIVE COLOUR	432	POOR WHITE BALANCE	442	COLOUR STREAKING	
413	NO COLOUR IN VIEWFINDER	423	OTHER COLOUR LEVEL PROBLEM	433	HUE PROBLEM	443	COLOUR BARS ON PICTURE	
414				434	PURITY ERROR	444	OTHER COLOUR NOISE PROBLEM	
41X				435	LANDING ERROR/WHITE UNIFORMITY	445		
5	AUDIO			436	CONVERGENCE ERROR	446		
510	NO AUDIO	520	AUDIO LEVEL PROBLEM	530	AUDIO QUALITY	540	NOISY AUDIO	
511	NO SOUND IN E TO E MODE	521	LOW AUDIO LEVEL	531	POOR FREQUENCY RESPONSE	541	HUM	
512	NO PLAYBACK OF OUTGOING MESSAGE(S)	522	EXCESSIVE AUDIO LEVEL	532	DISTORTED AUDIO	542	HISS	
513	NO PLAYBACK OF INCOMING MESSAGE(S)	523	BALANCE PROBLEM	533	NO OR POOR TREBLE	543	CROSSTALK	
514	NO AUDIO PLAYBACK	524	FADER PROBLEM	534	NO OR POOR BASS	544	STATIC, POP OR CLICK NOISE	
515	NO SOUND FROM HANDSET	525	AUDIO LEVEL REMAINING/NO MUTING	535	EARPHONE/HEADPHONE AUDIO POOR	545	BUZZ	
516	NO SOUND FROM SPEAKER	526	OTHER AUDIO LEVEL PROBLEM	53X	OTHER 'AUDIO QUALITY' PROBLEM	546	SCRATCHING NOISE	
517	NO SOUND FROM HEADPHONE/EARPHONE					547	IGNITION NOISE	
518	NO MICROPHONE SOUND					548	WHIRRING/MULTIPATH NOISE	
519	NO SOUND FROM DIGITAL INPUT					549	DATA/DIGITAL NOISE	
51X	OTHER NO AUDIO PROBLEM					54X	OTHER 'AUDIO NOISE' PROBLEM	
6	MECHANISM			550	UNSTABLE AUDIO	560	POOR AUDIO RECORDING	
610	NO MECHANICAL OPERATION</td							

SERVICE-MODE EN

It is necessary to enter the Service Mode in order to carry out alignment of the TV set. Most adjustments can be made with the RCU, except the Focus and Screen voltages.

1. Service Mode Access

- 1.1 With the RCU, switch the TV set into the "Standby" mode.
 - 1.2 Switch "Off" the TV set by mains supply switch (wait until LED is dark).
 - 1.3 Whilst pressing the "Magenta (text)" button on the RCU switch "On" the TV set using the mains switch.
- Continue to press the "Magenta (text)" button until the Service-setup Sub-menu appears.

ET1 ID : S2.3	(1)
INIT <▷	(2)

2. Service Menu

2.1 Navigation

- Press the Δ / ∇ buttons to select the menu line.
- Press the $</>$ buttons to make adjustments or selection of a menu item.

2.2 Service-Menu lines

Set-up lines (INIT,KEY,LOCK,LIMIT) -
Video lines (VG2, AGC, BKS, OS-B, PKWS, WPBS, WPGS, WPRS, BLOGS, BLORS, YD, CL).
Geometry lines (VSH, SC, VA, VS, HSH)
IF/SET-UP lines (OIF,SOC)

2.3 Activation of a line :

The first line (1) is continuously displayed. Sequential selection of the others lines in the Service Menu is possible by pressing the Δ / ∇ buttons on the RCU.

3. Alignment and storing new function value

- 3.1 The current value of the selected function is displayed in a hexadecimal form to the right of the function name. This value is adjusted by means of the RCU $</>$ buttons.
- 3.2 The values will be stored in the non-volatile memory when leaving the service menu or switching the TV into standby mode.

4. Temporary exit from Service Mode

- 4.1 To temporary leave the Service Mode, press the "Exit" button on the RCU. To access the everyday menus, press the "Menu" button on the RCU.
- 4.2 To return to the Service Menu, press the "Magenta" button on the RCU

5. Leaving the Service Mode

- 5.1 To EXIT the Service Menu either press, the "Standby" button on the RCU or switch "Off" the mains supply to the TV.

MODE SERVICE FR

Le mode service sert au réglage de l'appareil. Toutes les opérations de réglage s'effectuent à l'aide de la télécommande (sauf les réglages de Focus et de tension de grille-écran).

1. Accès au mode service

- 1.1 Commuter le téléviseur en position de veille avec la télécommande.
- 1.2 Eteindre le téléviseur par l'interrupteur secteur (attendre l'extinction complète du voyant).
- 1.3 Maintenir la touche "Magenta (text)" enfoncée et mettre simultanément le téléviseur en marche avec l'interrupteur secteur. Ne pas relâcher la touche "Magenta (text)" jusqu'à apparition du menu

ET1 ID : S2.3	(1)
INIT	(2)

2. Menu Service

2.1 Déplacement

- Appuyer sur la touche Δ / ∇ pour sélectionner une ligne de menu.
- Appuyer sur la touche $</>$ pour un réglage ou une sélection d'une option.

2.2 Lignes de Menus du mode service

Set-up lines (INIT,KEY,LOCK,LIMIT) -
Video lines (VG2, AGC, BKS, OS-B, PKWS, WPBS, WPGS, WPRS, BLOGS, BLORS, YD, CL).
Geometry lines (VSH, SC, VA, VS, HSH)
IF/SET-UP lines (OIF,SOC)

2.3 Sélection d'une ligne:

La première ligne (1) du menu est toujours affichée.
 De courtes pressions sur la touche " Δ / ∇ " sélectionnent séquentiellement la ligne (2).

3. Réglage des fonctions sélectionnées; mémorisation

- 3.1 La valeur momentanée de la fonction sélectionnée est indiquée sous forme hexadécimale à droite, à côté de la position à régler et peut être modifiée avec la télécommande par la touche $</>$.
- 3.2 La valeur de réglage est mémorisée dans la mémoire non volatile en sortie de mode service ou en mettant le TV en position de veille.

4. Sortie temporaire du mode service

- 4.1 Utiliser la touche "Exit" de la télécommande.
 Le menu utilisateur peut-être accessible via la touche "Menu".
- 4.2 Pour entrer à nouveau dans le Menu Setup utiliser la touche magenta.

5. Sortie du mode service

- 5.1 Pour sortir du mode service, commuter le téléviseur en position de veille ou le mettre hors service par l'interrupteur secteur.

SERVICE-MODE DE

Der Service-Mode wird für den Geräteabgleich benötigt. Alle Einstellungen erfolgen mit der Fernbedienung (bis auf Fokuseinstellung und Schirmgitterspannung).

1. Service-Mode einschalten

- 1.1 Mit der Fernbedienung das Fernsehgerät in Stand-by schalten.
- 1.2 Das Gerät mit dem Netzschalter ausschalten (warten bis LED dunkel ist)
- 1.3 Während Sie die margentaefarbene Taste (text) auf der Fernbedienung gedrückt halten, schalten Sie das Gerät mit dem Netzschalter ein. Halten Sie die margentaefarbene Taste solange gedrückt bis das Service Setup Sub-Menü erscheint.

ET1 ID : S2.3	(1)
INIT	(2)

2. Service Menü

2.1 Navigation

- Drücken Sie die Tasten Δ / ∇ zum Auswählen der Menüzeile.
- Drücken Sie die $</>$ -Tasten um eine Menüfunktion anzuwählen oder abzugleichen.

2.2 Service-Menü Zeilen

Set-up lines (INIT,KEY,LOCK,LIMIT) -
Video lines (VG2, AGC, BKS, OS-B, PKWS, WPBS, WPGS, WPRS, BLOGS, BLORS, YD, CL).
Geometry lines (VSH, SC, VA, VS, HSH)
IF/SET-UP lines (OIF,SOC)

2.3 Aktivierung einer Menüzeile:

Die erste Zeile (1) wird ständig angezeigt. Die Anzahl der Zeilen (2) im Service-Menü ist durch Drücken der Δ / ∇ -Tasten möglich.

3. Abgleich der gewählten Funktion und Speichern

- 3.1 Der momentane Wert der gewählten Funktion wird hexadezimal rechts neben der abzugleichen Position angegeben und kann mit der Taste $</>$ auf der Fernbedienung verändert werden.
- 3.2 Die Werte werden nach dem Abschalten des Gerätes in Standby oder nach dem Verlassen des Service-Menüs im nichtflüchtigen Speicher (EEPROM) abgelegt.

4. Vorübergehendes verlassen des Service-Mode

- 4.1 Auf der Fernbedienung Exit drücken.
 Mit der Tasten Menu gelangen Sie zum Menü-Übersicht.
- 4.2 Durch Drücken der margentaefarbene Taste gelangen Sie in das Service Setup Sub-Menü.

5. Service-Mode verlassen

- 5.1 Zum Verlassen des Service-Mode das Gerät in Stand By schalten oder mit dem Netzschalter ausschalten.

MODO SERVICIO ES

Se necesita el MODO SERVICIO para ajustar el aparato. Todos los ajustes se hacen con el mando a distancia (a excepción de la tensión del sistema, los ajustes del foco y las tensiones de la rejilla de pantalla).

1. Ajustar el Modo Servicio

- 1.1 Con el mando a distancia conectar a STANDBY el televisor.
- 1.2 Desconectar el aparato con el interruptor de la red (esperar hasta que el LED se apague).
- 1.3 Mientras mantiene pulsado el botón "Magenta (texto)" de la UCR, pulse el interruptor general de red para encender el televisor.
- 1.4 Mantenga pulsado el botón "Magenta (texto)" hasta que aparezca el submenú de la configuración del servicio.

ET1 ID : S2.3	(1)
INIT	(2)

2. Menú Servicio.

2.1 Desplazamiento

- Pulse el botón Δ / ∇ para seleccionar la línea del menú.
- Pulse el botón $</>$ para ajustar o seleccionar una opción del menú.

SERVICE-MODE IT

Il Service-Mode è necessario per l'allineamento dell'apparecchio. Tutte le regolazioni si effettuano con il telecomando. (tranne le regolazioni del fuoco e le tensioni della griglia schermo).

1. Attivazione del Service-Mode

- 1.1 Comutare il televisore in stand-by con il telecomando.
- 1.2 Spegnere l'apparecchio con l'interruttore di rete (attendere finchè il LED è spento).
- 1.3 Mentre tenete premuto il pulsante "Magenta (testo)" del RCU, accendete il televisore utilizzando l'interruttore di rete. Continuate a premere il pulsante "Magenta (testo)" del RCU fino all'apparizione del Service Setup Sub Menu

ET1 ID : S2.3	(1)
INIT	(2)

2. Service Menu

2.1 Navigazione

- Premere i tasti Δ / ∇ per selezionare la linea del menu
- Premere i tasti $</>$ per la regolazione o la selezionz di un elemento del menu

2.2 Linee Service Menu

Set-up lines (INIT,KEY,LOCK,LIMIT) -
Video lines (VG2, AGC, BKS, OS-B, PKWS, WPBS, WPGS, WPRS, BLOGS, BLORS, YD, CL).
Geometry lines (VSH, SC, VA, VS, HSH)
IF/SET-UP lines (OIF,SOC)

2.3 Attivazione di una linea :

La prima linea (1) è continuamente visualizzata. La selezione delle linee successive (2) è possibile in service menu premendo i tasti Δ / ∇ .

3. Taratura della funzione scelta e memorizzazione

- 3.1 Il valore momentaneo della funzione scelta viene indicato in formato esadecimale a destra, accanto alla posizione da allineare e può essere cambiato con il pulsante $</>$ del telecomando.
- 3.2 I valori verranno memorizzati nella memoria num quando verrà lasciato il menu service mode o commutando il TV in modo stand-by.

4. Uscita temporanea dal Service Mode

- 4.1 Premere Exit sul telecomando.
- Al menu di uso quotidiano si accede attraverso il pulsante Menu.
- 4.2 Il Service Setup Sub Menu è accessibile attraverso il tasto "Magenta".

5. Disattivazione del Service-Mode

- 5.1 Per disattivare il Service Mode, commutare l'apparecchio in stand-by o spegnerlo con l'interruttore di rete.